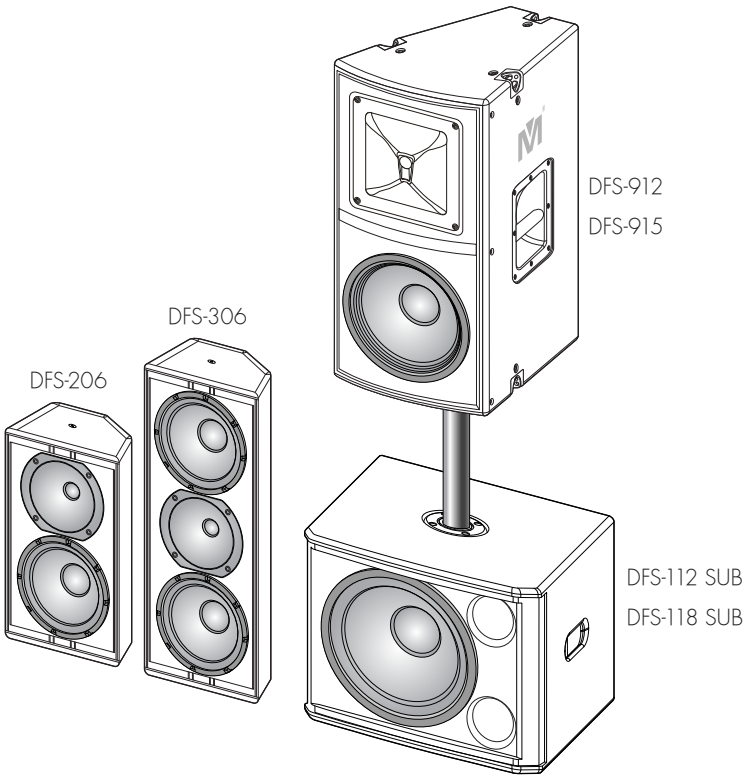
Better Music Builder®
Passionate about Music

OWNER'S MANUAL

Better Music Builder is a leader in the Audio and Karaoke equipment industry. We are committed to offering you the high quality audio product. Unlike any others brand, we deliver the best cost and value to you directly. We may update our manual on short notice, so we highly recommend downloading the latest update information including operation manuals, installation instruction, and other new technologies updates, etc. from our website www.BetterMusicBuilder.com.



DYNAMIC FUSION SERIES

High Definition Sound PRO-Line

HD Sound
High Definition Sound

Dynamic Fusion Series is a high-end live sound system designed by the engineering team of Better Music Builder. This high-end series give you live music experience, high power output and superior sound quality.

2-Way High Frequency

SUPERIOR GRADE

DFS-206 6.5-inch WOOFER
DFS-306 6.5-inch WOOFER

High Definition Loudspeaker

SUPERIOR GRADE

DFS-912 12-inch WOOFER
DFS-915 15-inch WOOFER

Bass Powered Subwoofer

SUPERIOR GRADE

DFS-112 SUB 12-inch WOOFER
DFS-118 SUB 18-inch WOOFER

Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

www.BetterMusicBuilder.com

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INTRODUCTION

Better Music Builder engineering team created a high performance speaker product called the Dynamic Fusion Series (DFS-206, DFS-306, DFS-912, DFS-915, DFS-112 SUB and DFS-118 SUB) by using the Dynamic Fusion Technology™ (DFT).

Dynamic Fusion Series are high performance speaker which developed with the latest computer stimulation design technology and manufacturing technology. With our high efficient professional speakers with unique LF extension technology, it performs high quality, precise clarity and reliability. LF unit manufactures with non-linear fabric paper cone which provides waterproof feature. HF unit manufactures with high temperature treated magnalium diaphragm, voice coil with copper cladding aluminum wire and compression cavity designed with linear phase technology. Magnetic circuit of tweeter generates high magnetic energy, low distortion and excellent ventilation function and high strength plywood absorb the sympathy of noise for higher performance.

The 2-Way High Frequency Speaker (DFS-206 & DFS-306) has three transducers 2-way phase-reversed full range professional speaker, professional and efficient transducers, computer simulating design.

The compact design of High Definition Speaker (DFS-912 & DFS-915) can be easily pole-mounted or permanently installed onto wall, ceiling or under balcony. The engineering team of Better Music Builder designed this speaker specifically for all kinds of rock bar, entertainment bar, night club, and all kinds of living performance and portability. The Bass Powered Speaker designed by the engineering team of Better Music Builder specifically suit the needs for all kinds of medium-sized conference room, multi-function hall, church and general small performance site, and also for home use.

Each cabinet of Bass Powered Subwoofer (DFS-112 SUB & DFS-118 SUB) is made of with solid plywood with advanced environmental protection polyurethane-based painting which is very dense. We are fencing each cabinet to provide strong ultra-weather ability. With this design, each bass speaker reduces interference and enhances the sound quality.

The single angle pole mount offers much more control than the typical angle mount. With a 10 degree down angle, the speaker can be directed down toward your audience, keeping the energy off the back wall enhancing coverage and clarity.

They all are sold individually to tailor-made your system need. Please visit our website www.bettermusicbuilder.com to learn more about our Dynamic Fusion Series and other products.

Dynamic Fusion Technology™ (DFT)

The Better Music Builder engineers have been working hard on brining home entertainment to the next level, the experience that people have been dreaming about but never had before such as real excitement, freestyle performing, and intensive hearing are included all in one system. To meet audience's expectation, our engineers understand the need to research and develop the latest technologies. For this reason, Better Music Builder step developed the Dynamic Fusion Technology™ (DFT).

DFT practices the latest computer stimulation technology to design smaller size circuit with better distortion minimization function. The T share horn is specially designed to facilitate the composition of array. The woofer uses a 75mm diameter high-power voice coil with round copper wire, and the layer is 2 way around the inside and outside. The voice coil frame material with very high levels of TIL provides excellent strength and high power capacity, which can boost the speaker power up to 400W, and the short-term maximum power can reach up to 1600W. The tweeter with magnalium diaphragm is made by high-temperature heat treatment process to maximize damping strength and to reduce proportion of 3rd harmonic distortion to create more natural, delicate and nice sound.

DFT is a unique design that integrates in the drivers to enhance several critical performance parameters: frequency response, power output, and distortion.

By implementing DFT, engineers understand that the shape of the pole piece that can affect the magnetic interaction between the voice coil and the magnetic field, and is sometimes used to modify a driver's behavior. A "shorting ring", or Faraday loop, may be included as a thin copper cap fitted over the pole tip or as a heavy ring situated within the magnet-pole cavity. The benefits are to reduce impedance at high frequencies, providing extended treble output, reduced harmonic distortion, and a reduction in the inductance modulation that typically accompanies large voice coil excursions. On the other hand, the copper cap requires a wider voice-coil gap, with increased magnetic reluctance; this reduces available flux, requiring a slightly larger magnet for equivalent performance.

The wire in the voice coil is made of copper, and its cross section is hexagonal, giving varying amounts of wire volume coverage in the magnetic gap space. The coil is oriented co-axially inside the gap; it moves back and forth within a small circular volume (a hole, slot, or groove) in the magnetic structure. The gap establishes a concentrated magnetic field between the two poles of a permanent magnet; the outside of the gap being one pole, and the center post (called the

pole piece) being the other. The pole piece and back plate are often a single piece, called the pole plate or yoke.

DFT's Dynamic Transition Waveguides™ (DTWaveguides) represents the latest horn technology. In addition to providing smooth, low distortion sound, DTWaveguides delivers uniform off-axis frequency response to every point within the intended coverage area – not just in the horizontal and vertical planes – resulting in superior array – ability of multiple loudspeaker systems. PTWaveguides combine outstanding pattern control with undistorted sound for natural music and intelligible speech.

DFT is synonymous with portability. One can easily lift, load, and mount the system virtually anywhere. Deep-welled, full-size handles feature ergonomically designed grip points, while balanced composite enclosures make the system truly one of the lightest and easiest round reinforcement systems to transport and set up.

SYSTEM FEATURES

2-WAY HIGH FREQUENCY SPEAKER DFS-206 and DFS-306

- High SPL and sensitivity
- 1 x 6.5" (DFS-206) or 2 x 6.5" (DFS-306) high power low frequency transducer
- 1 x 1" PEI diaphragm compression driver
- Passive configuration
- 140° x 140° wide angle coverage pattern
- 1 x NL4 connector (included in package)
- Computer aided design to optimize frequency and phase response
- Multi purpose cabinet design for FOH or monitor use
- Use as a main system with or without sub speaker augmentation
- Suitable for speech and background music
- Flexible and easy-to-install configurations (wall, ceiling, under balcony)
- U bracket and a top holder of speaker stand are included in package
- Powder coated grill
- Durable Polyurethane textured base paint

HD LOUDSPEAKER DFS-912 and DFS-915

- 12" (DFS-912) or 15" (DFS-915) professional high performance speaker with unique LF extension technology LF can be lower to 35Hz
- Computer stimulation design technology ensures good frequency response and excellent phase feature
- Tweeter and full range speaker with high quality performance
- 1 x 12" (DFS-912) or 1 x 15" (DFS-915) professional woofer
- One compression driver with 3" magnalium diaphragm
- 60°x60° wide dispersion horn
- Independent crossover circuit provides low distortion and interferer
- Single Amplifier Driving Mode
- Suitable for all kind of rock bar, entertainment bar, night club, all kinds of living performance and portability.

BASS POWERED SUBWOOFER DFS-112 SUB and DFS-118 SUB

- High output SPL and sensitivity
- 1 x 12" (DFS-112 SUB) or 1x18" (DFS-118 SUB) high power low frequency transducer with 75mm~100mm voice coil
- Sensitivity 92dB, max SPL 123dB (DFS-112 SUB); Sensitivity 97dB, max SPL 124dB (DFS-118 SUB)
- RMS 300W, peak 1200W (DFS-112 SUB); RMS 500W, peak 2000W (DFS-118 SUB)
- Built-in power amplifier module
- Master volume control
- XLR input and output connectors
- Built in variable crossover 80Hz~250Hz high cut
- Phase switch
- Computer aided design to optimize frequency and phase response
- Cabinet designed for FOH use
- Suitable for use with any full range or mid/high speaker cabinets for extended low frequency, high quality music reproduction
- Integral 35mm pole receptacle for mounting full range or mid/high speaker cabinet
- Powder coated grill with foam backing
- Durable Polyurethane textured base paint

SAFETY INSTRUCTIONS

We will not notify you any errors or changes in this manual in advance. If there are any errors and changes in this manual, we will make the corrections in a timely manner. The corrections and changes will be appeared in our website. Therefore, please visit our website at BetterMusicBuilder.com frequently to find out the most updated information, corrections on errors and changes in this manual. You may also contact us at toll free at 1-800-318-2218.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED PERSONNEL

CAUTIONS FOR INSTALLATION

POWER SUPPLY / POWER CORD

- Only use the voltage specified as correct for the device. The required voltage is printed on the name plate of the device.
- Use only the included power cord.
- Do not place the power cord near heat sources such as heaters or radiators, and do not excessively bend or otherwise damage the cord, place heavy objects on it, or place it in a position where anyone could walk on, trip over, or roll anything over it.
- Remove the electric plug from the outlet when the device is not to be used for extended periods of time, or during electrical storms.
- When removing the electric plug from the device or an outlet, always hold the plug itself and not the cord. Pulling by the cord can damage it.

DO NOT OPEN

- Do not open the device or attempt to disassemble the internal parts or modify them in any way. The device contains no user-serviceable parts. If it should appear to be malfunctioning, discontinue use immediately and have it inspected by qualified Better Music Builder service personnel.

WATER WARNING

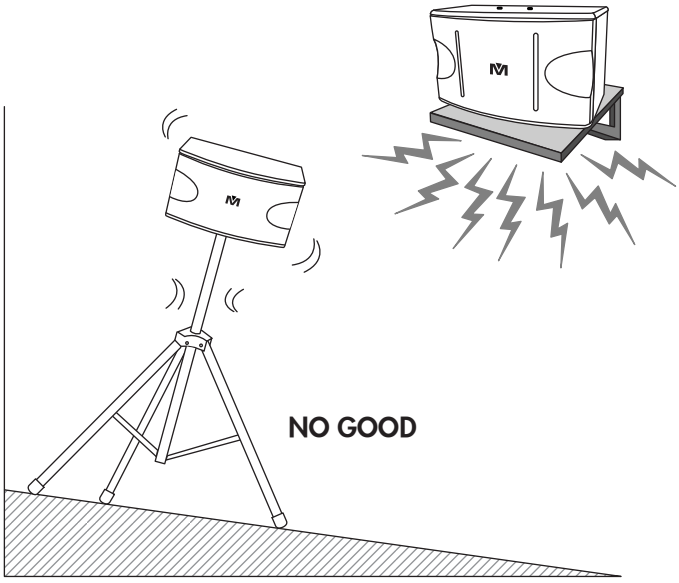
- Do not expose the device to rain, use it near water or in damp or wet conditions, or place containers on it containing liquids which might spill into an openings.
- Never insert or remove an electric plug with wet hands.

ABNORMALITY

- If the power cord or plug becomes frayed or damaged, or if there is a sudden loss of sound during use of the device, or if any unusual smells or smoke should appear to be caused by it, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified Better Music Builder service personnel.
- If this device should be dropped or damaged, immediately turn off the power switch, disconnect the electric plug from the outlet, and have the device inspected by qualified Better Music Builder service personnel.

LOCATION

- Always consult qualified Better Music Builder service personnel if the device installation requires construction work, and make sure to observe the following precautions.
- Choose mounting hardware and an installation location that can support the weight of the device.
- Avoid locations that are exposed to constant vibration.



- Inspect the device periodically.
- When transporting or moving the device, always use two or more person. Attempting to lift the device by yourself may damage your back, result in other injury, or cause damage to the device itself.
- Before moving the device, remove all connected cables.
- Do not use the device in a confined, poorly-ventilated location. If this device is to be used in a small space other than an EIA-standard rack, make sure that there is adequate space between the device and surrounding walls or other devices; at least 30cm at the sides, 30cm behind and 30cm above. Inadequate ventilation can result in overheating, possibly causing damage to the device(s), or even fire.

- Do not use the speaker's handles for suspended installation. Doing so can result in damage or injury.
- Do no expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.

CONNECTIONS

- Before connecting the device to other devices, turn of the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.

CAUTION

- When turning on the AC power in your audio system, always turn on the device LAST, to avoid speaker damage. When turning the power off, the device should be turned off FIRST for the same reason.
- Do not insert your fingers or hands in any gaps or openings on the device (ports, etc.).
- Avoid inserting or dropping foreign objects (paper, plastic, metal, etc.) into any gaps or openings on the device (ports, etc.) If this happens, turn off the power immediately and unplug the power cord from the AC outlet. Then have the device inspected by qualified Better Music Builder service personnel.
- Do not use the device for a long period of time at a high or uncomfortable volume level, since this can cause permanent hearing loss. If you experience any hearing loss or ringing in the ears, consult a physician.
- Do not operate the device if the sound is distorting. Prolonged use in this condition could cause overheating and result in fire.
- Do not rest your weight on the device or place heavy objects on it, and avoid use excessive force on the buttons, switches or connectors.

GETTING STARTED

WIRING

IMPORTANT: Make sure all equipment is turned off before making any connections.

For speaker connections, use a high-quality speaker wire with polarity coding. The side of the wire with a ridge or other coding is usually considered positive polarity

NOTE ▸ If desired, consult Better Music Builder technical support for speaker wire and connection options.

The speakers have coded terminals that accept a variety or wire connectors.

To ensure proper polarity, connect each + terminal on the back of the amplifier or receiver to the respective + (red) terminal on each speaker. Connect the – (black) terminals in a similar way. See the owner's guides that were included with your amplifier, receiver and television to confirm connection procedures.

IMPORTANT: Do not reverse polarities (i.e., + to – or – to +) when making connections. Doing so will cause poor imaging and diminished bass response.

ADJUSTING

Check the speakers for playback, first by setting the system volume control to a minimum level, and then by applying power to your audio system. Play a favorite music or video segment and increase the system volume control to a comfortable level.

NOTE ▸ You should hear balanced audio reproduction across the entire frequency spectrum. If not, check all wiring connections or consult the authorized dealer from whom you purchased the system for more help.

The amount of bass you hear and the stereo-image quality will be affected by a number of different factors, including the room's size and shape, the construction materials used to build the room, the listener's position relative to the speakers, and the position of the speakers in the room.

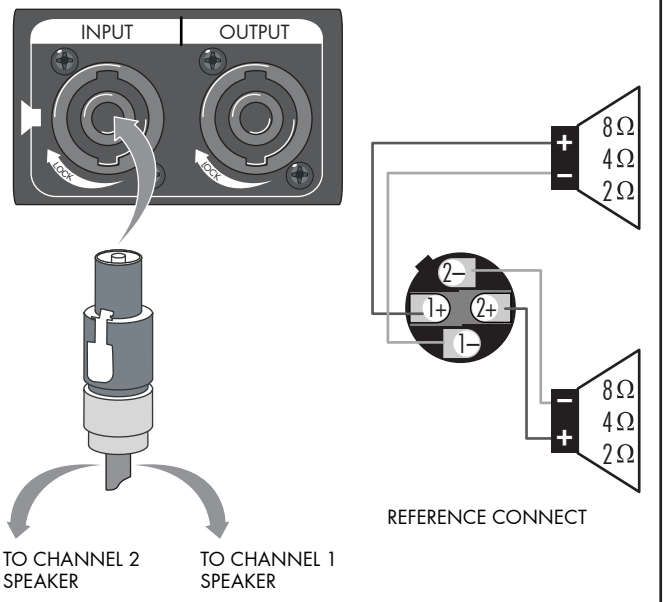
Listen to a variety of music selections and note the bass level. If there is too much bass, move the speakers away from nearby walls. Conversely, if you place the speakers closer to the walls, there will be more bass output.

CARING

Each enclosure has a finish that does not require any routine maintenance. When needed, use a soft cloth to remove any fingerprints or dust from the enclosure or grille.

SYSTEM APPLICATIONS

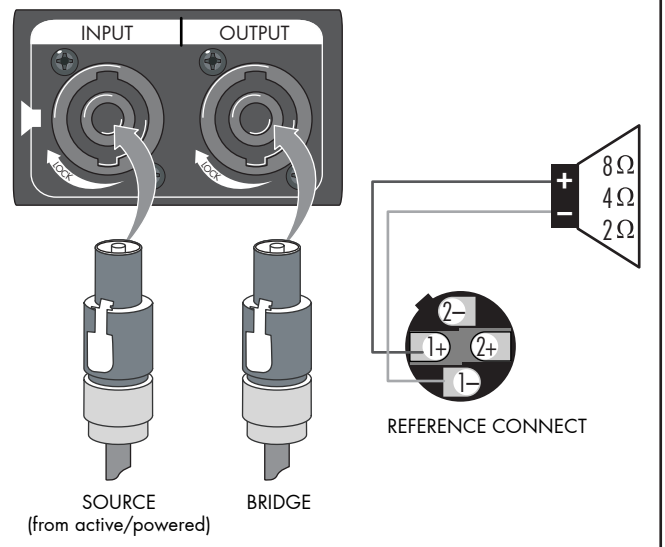
SPEAKON Y CONNECTORS



Speakon Outputs

The upper Speakon jack has both Channel 1 and Channel 2 outputs, so it is especially useful for parallel, bi-amp, or BRIDGE mono operation. The other Speakon carries only Channel 2's output. See the illustrations at above.

SPEAKON CONNECTORS



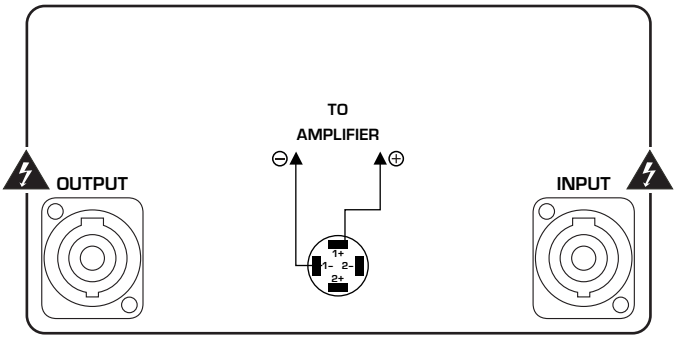
Source (INPUT) comes from the output source of the active/powered speaker while the bridge (OUTPUT) connects to the passive/non-powered speaker.

NOTE A speakon cable is required to connect the "OUTPUT" of the acive/powered speaker to the "INPUT" of the passive/non--powered speaker. Please order the speakon cable from our authorized dealers.

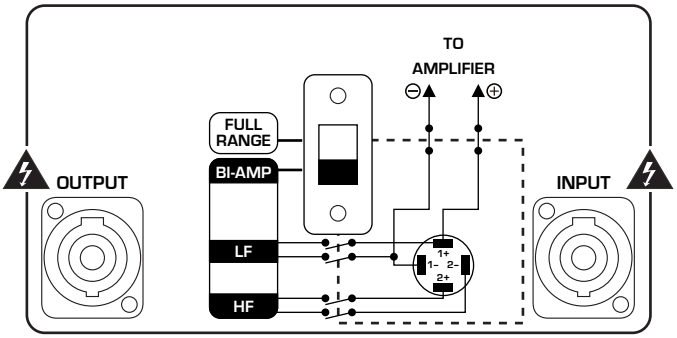
EXAMPLE OF SPEAKON CONNECTOR

There are two groups on the speakon connectors: Group 1 (+1, –1) and Group 2 (+2, –2) as indicated in the diagram. In order to use it, your speaker must have multi-functions (i.e. enable two sources of signal for input). If your speaker does not have multi-functions, it would not work with the Group 2 for connection. Please refer to the following diagram for connection.

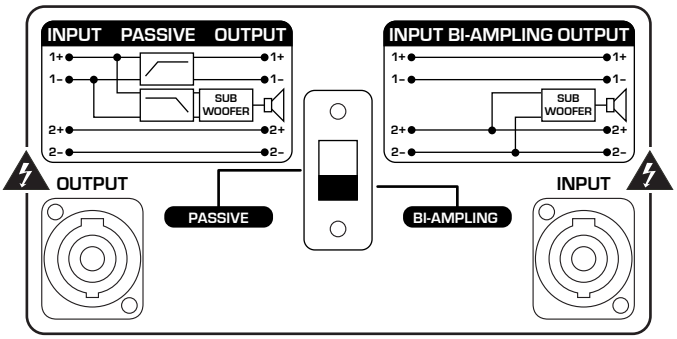
Connector Panel



Connector Panel on Multi-Way Systems



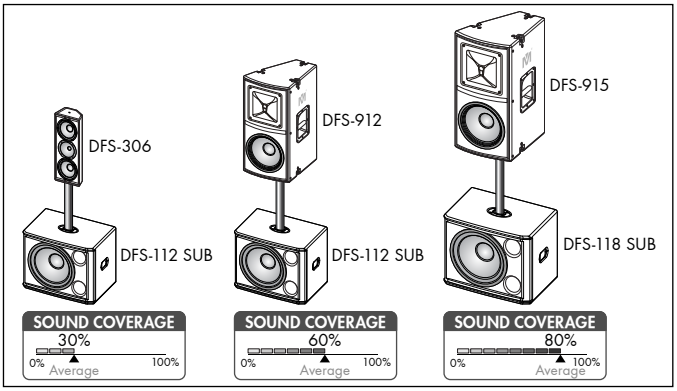
Connector Panel on Subwoofers



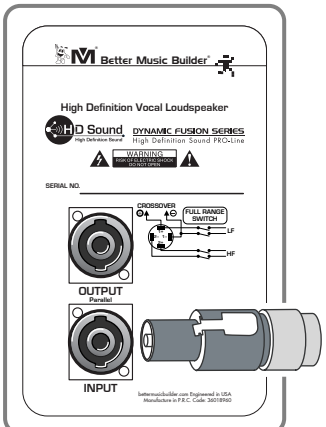
DYNAMIC FUSION SYSTEM FUNCTIONING

The HD vocal loudspeaker (12-inch DFS-912 or 15-inch DFS-915) functions separately with the bass powered subwoofer (12-inch DFS-112 SUB or 18-inch DFS-118 SUB). Therefore, it produces superior live sound quality. Please refer to the following diagram for connection.

NOTE ➤ There are two kinds of subwoofer: active/powered subwoofer and passive/non-powered subwoofer. For powered subwoofer, you need connecting it to mixer. For non-powered subwoofer, you need a power amplifier to operate it. For high power output, you need a high power amplifier. Please consult with our authorized dealers for the technical aspects in details.



This HD Vocal Loudspeaker connection panel are all the same in these models: DFS-912 and DFS-915.



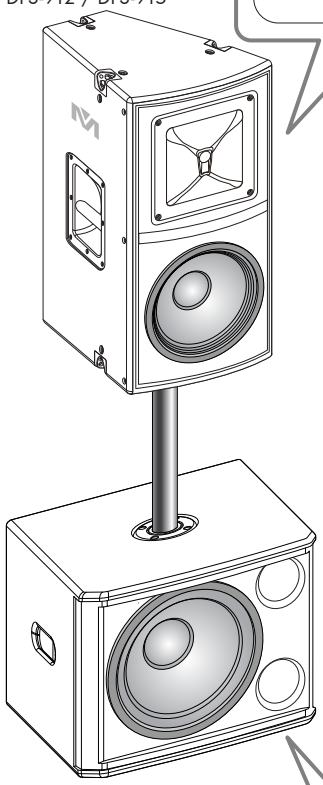
HD VOCAL LOUDSPEAKER
DFS-912 / DFS-915

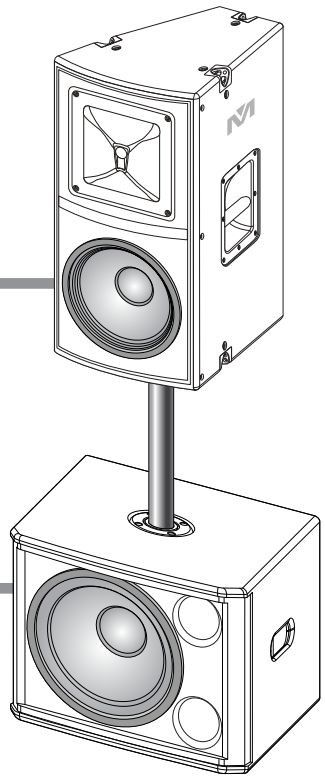
HD VOCAL LOUDSPEAKER DFS-912 / DFS-915

SPEAKON CONNECT TO INPUT

PORTABLE SYSTEM

DX-288 G2



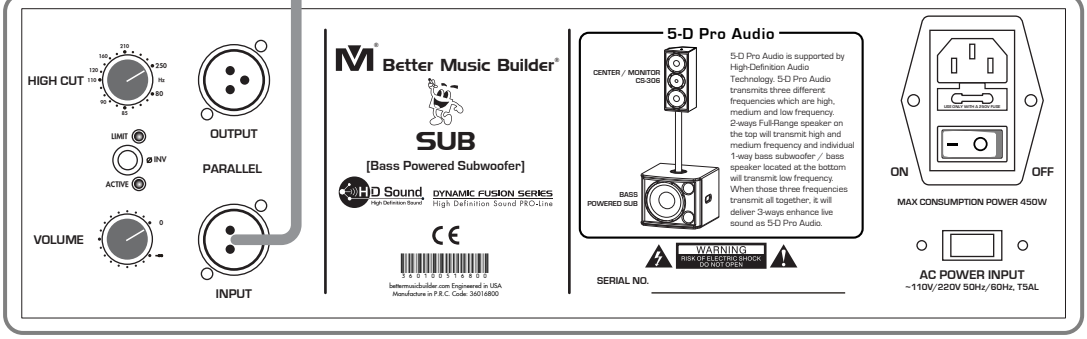


XLR-BALANCE INPUT

BASS POWERED SUBWOOFER
DFS-112 SUB / DFS-118 SUB

BASS POWERED SUBWOOFER
DFS-112 SUB / DFS-118 SUB

This Bass Powered Subwoofer connection panel are all the same in these models: DFS-112 SUB and DFS-118 SUB.

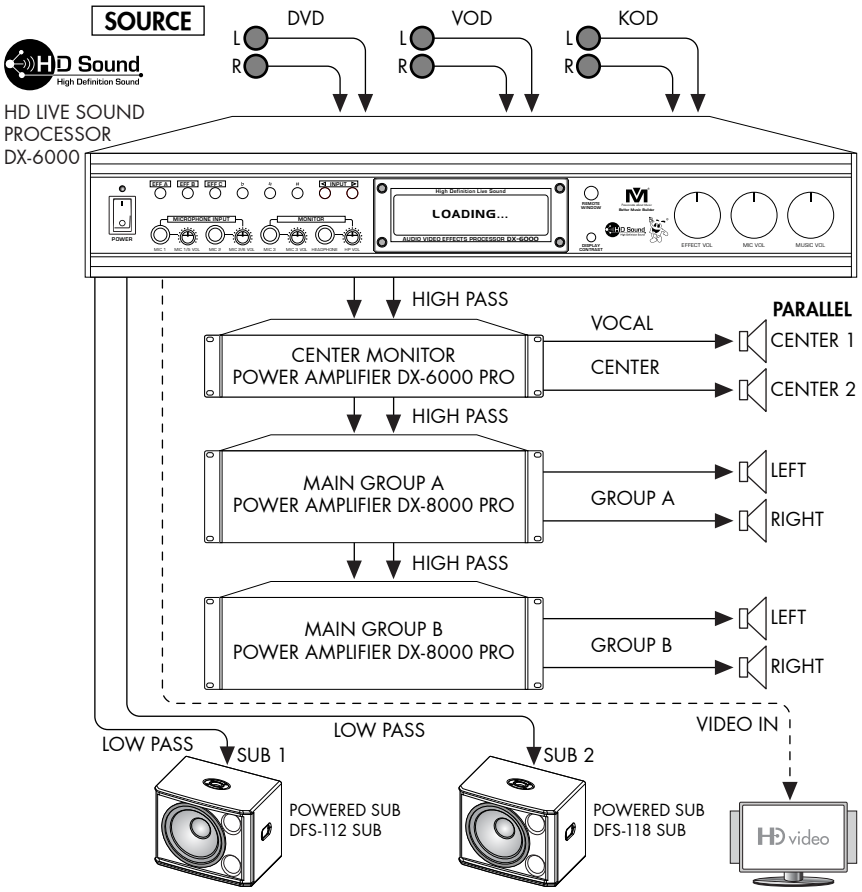

HIGH CUT
LIMIT
ACTIVE
INV
VOLUME
OUTPUT
PARALLEL
INPUT
Better Music Builder
SUB
[Bass Powered Subwoofer]
HD Sound
DYNAMIC FUSION SERIES
High Definition Sound PRO-Line
5-D Pro Audio
CENTER / MONITOR CS-306
BASS POWERED SUB
5-D Pro Audio is supported by High-Definition Audio Technology. 5-D Pro Audio transmits three different frequencies which are high, medium and low frequency. 2-ways Full-Range speaker on the top will transmit high and medium frequency and individual 1-way bass subwoofer / bass speaker located at the bottom will transmit low frequency. When those three frequencies transmit all together, it will deliver 3-ways enhance live sound as 5-D Pro Audio.
WARNING
SERIAL NO.
ON
OFF
MAX CONSUMPTION POWER 450W
AC POWER INPUT
~110V/220V 50Hz/60Hz, T5AL

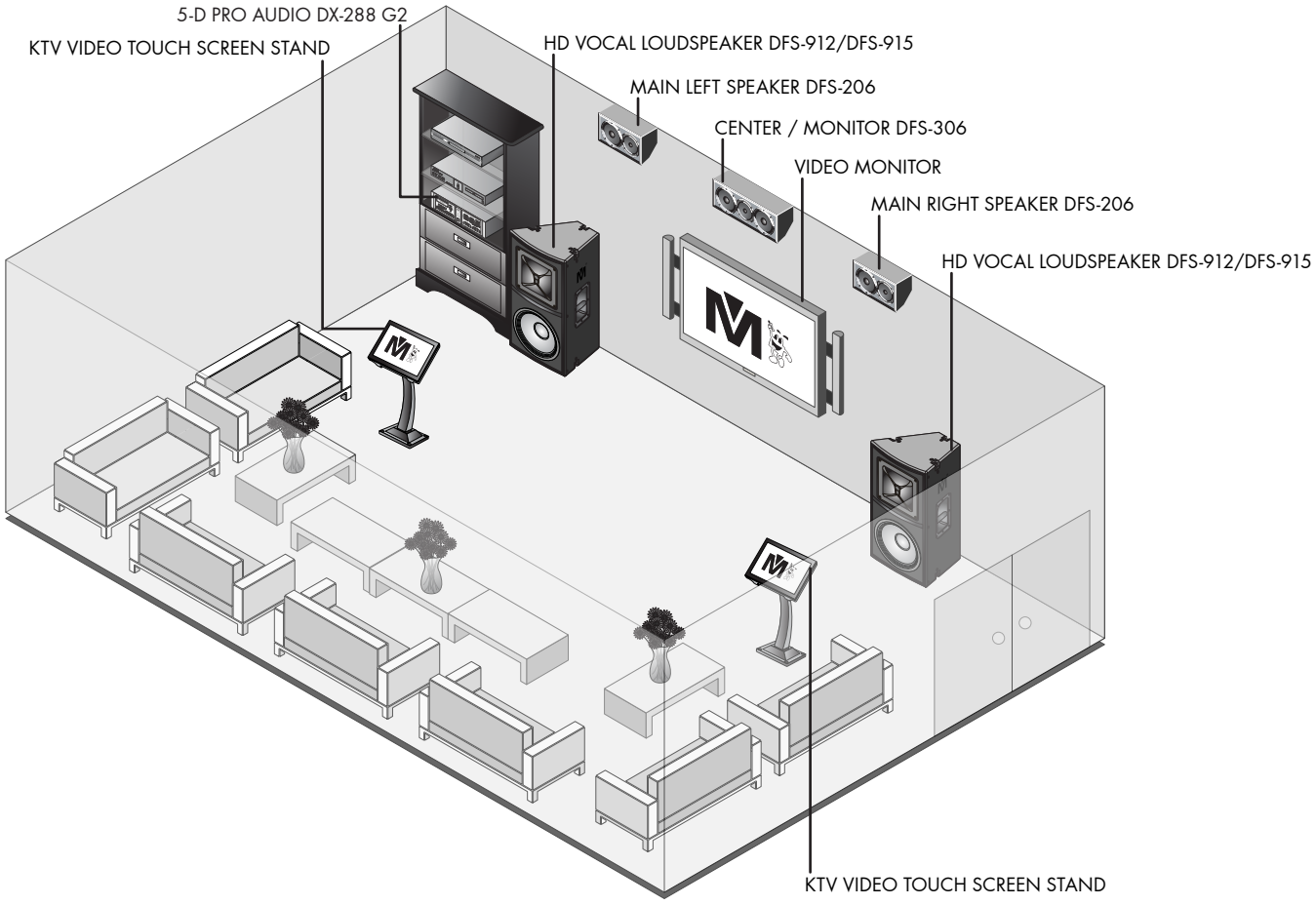
DYNAMIC FUSION SYSTEM OPERATES WITH 5-D PRO AUDIO (LARGE FORMAT)

Better Music Builder has a DX-6000 audio/video effect processor that can provide five divisions (5-D) pro audio for large format use. The DX-6000 processor needs to operate with three powered amplifiers (i.e. one powered amplifier to drive two center vocal monitor speakers in parallel, another powered amplifier to drive Group-A speakers for high and mid range frequency, and third powered amplifier to drive Group-B speakers for full range frequency).

DX-6000 provides low frequency line out to one or two powered subwoofers. The whole concept borrows the idea of a 5-channel home theater to produce a live sound effect in our system. You can use this system for public and commercial use. Better Music Builders have three different models of powered amplifiers to operate with the Dynamic Fusion System.

NOTE For installation, we highly recommend you hiring a professional audio contractor to do the job for safety purpose.




5-D PRO AUDIO DX-288 G2
KTV VIDEO TOUCH SCREEN STAND
HD VOCAL LOUDSPEAKER DFS-912/DFS-915
MAIN LEFT SPEAKER DFS-206
CENTER / MONITOR DFS-306
VIDEO MONITOR
MAIN RIGHT SPEAKER DFS-206
HD VOCAL LOUDSPEAKER DFS-912/DFS-915
KTV VIDEO TOUCH SCREEN STAND

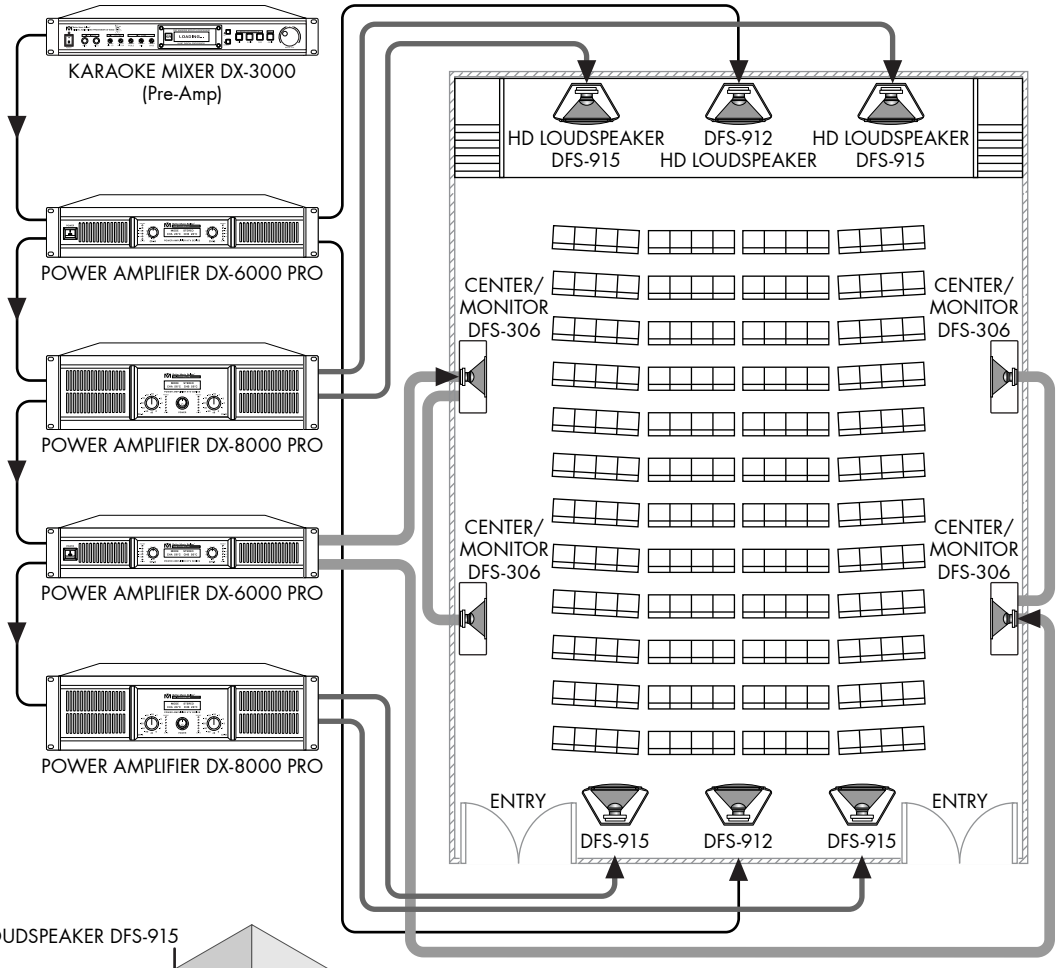
PUBLIC APPLICATION OF DYNAMIC FUSION SYSTEM

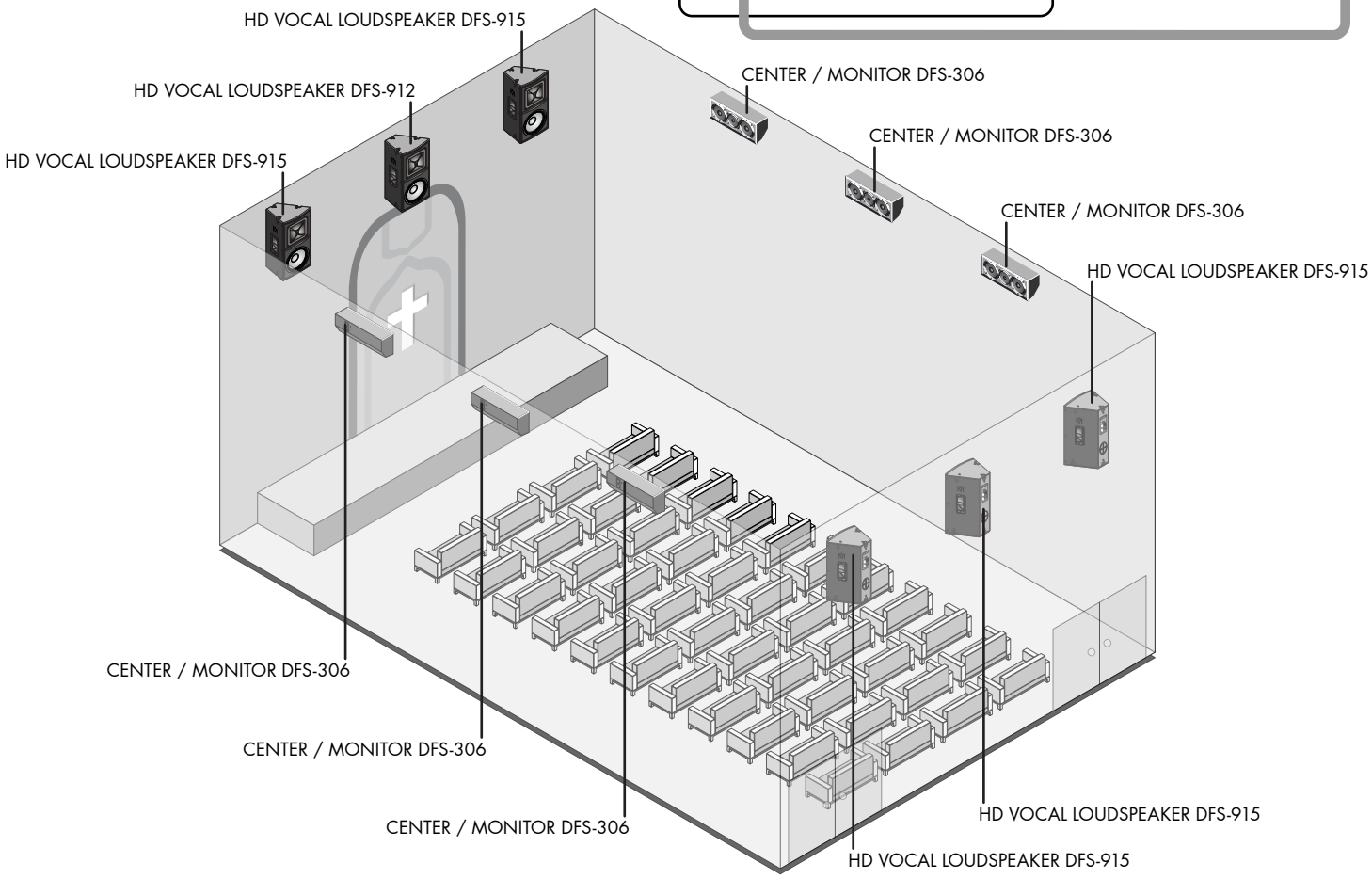
This diagram shows an area of about 4,000 square feet for 300 audience. We want to give you a general idea on how to connect the Dynamic Fusion System with a mixer and four power amplifiers for operation.

However, you may need to add two more powered subwoofers to increase the distance for sound coverage.

Better Music Builder currently offers three different size of powered subwoofers: DFS-112 SUB and DFS-118 SUB.

NOTE For installation, we highly recommend you hiring a professional audio contractor to do the job for safety purpose.



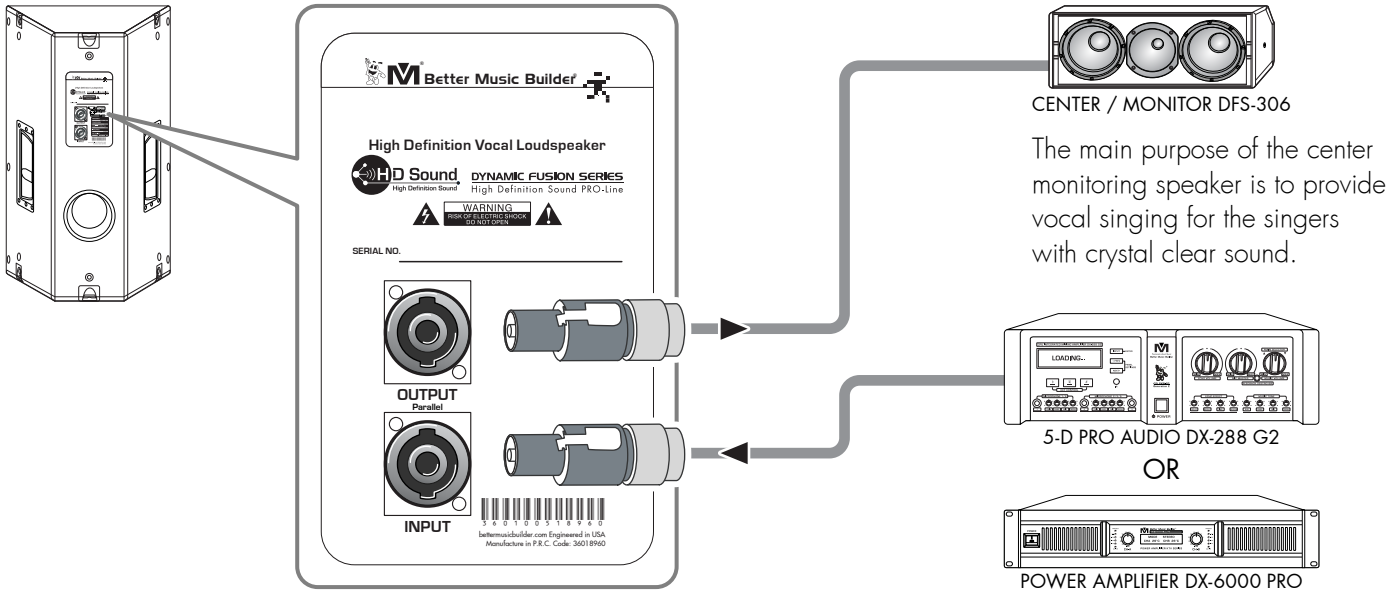

HD VOCAL LOUDSPEAKER DFS-915
HD VOCAL LOUDSPEAKER DFS-912
HD VOCAL LOUDSPEAKER DFS-915
CENTER / MONITOR DFS-306
CENTER / MONITOR DFS-306
CENTER / MONITOR DFS-306
HD VOCAL LOUDSPEAKER DFS-915
CENTER / MONITOR DFS-306
CENTER / MONITOR DFS-306
CENTER / MONITOR DFS-306
HD VOCAL LOUDSPEAKER DFS-915
HD VOCAL LOUDSPEAKER DFS-915

SPEAKER CONNECTION for MODEL DFS-912 and DFS-915

As indicated in the diagram, there are two speakon connectors: "OUTPUT" and "INPUT" in the rear panel of the speaker.

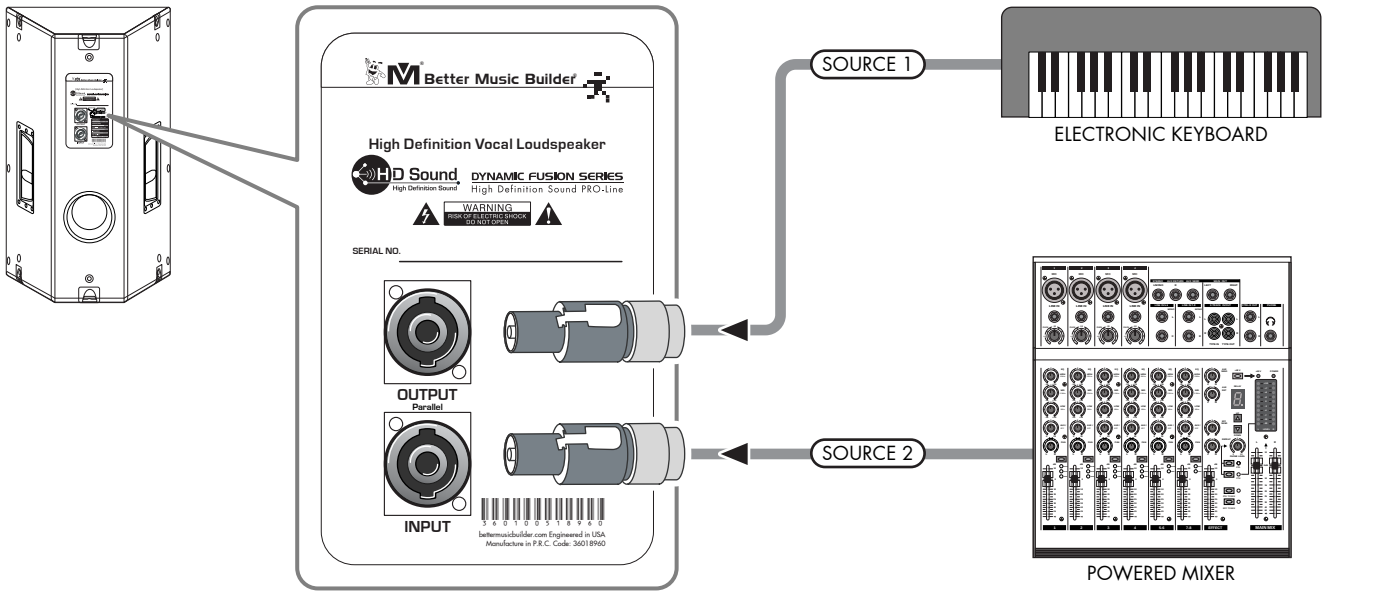
Connect "INPUT" speakon connector to amplifier or power amplifier. Connect "OUTPUT" speakon connector to the center monitoring speaker.

Through the above connections, it would create the superior sound effect from the Dynamic Fusion System.



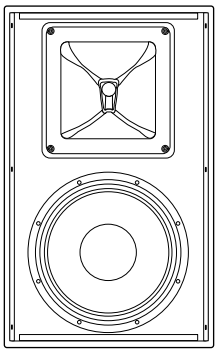
MULTI-FUNCTION CONNECTION for MODEL DFS-912 and DFS-915

There are two sources for connection in the rear of the speaker: INPUT and OUTPUT as indicated in the diagram. The INPUT is connected to the powered mixer. The OUTPUT is connected to other sources such as electronic keyboard. In this case, two sources would become input since it has a MULTI-FUNCTION CONNECTION. If the master volume of the speaker reaches the maximum level, it will automatically shut off in five seconds and then back to function again. Therefore, you must adjust the speaker master volume to a normal level. In this case, we highly recommend you adding two 15-inch woofer speakers and also increase more output power in your power amplifier or music source.

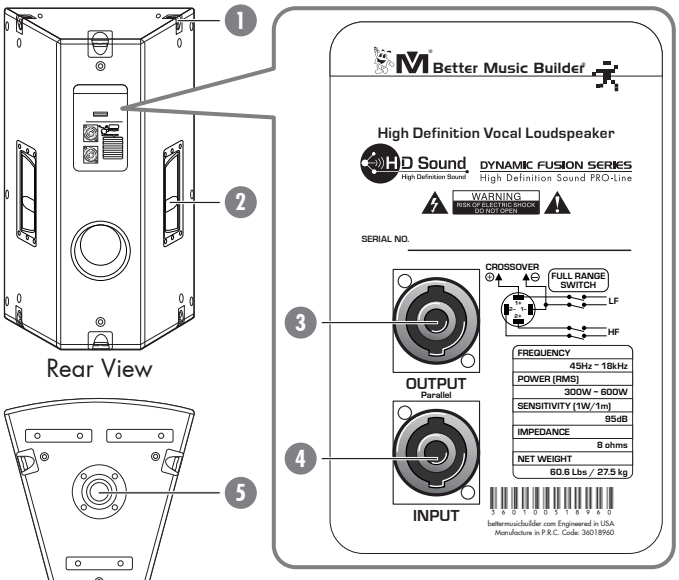


CONTROLS AND FUNCTIONS

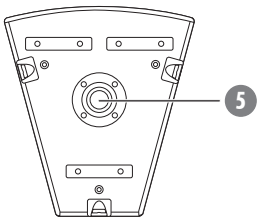
REAR PANEL: features are available for HD VOCAL LOUDSPEAKER model DFS-912 and DFS-915.



DFS-912 and DFS-915 Front View



Rear View

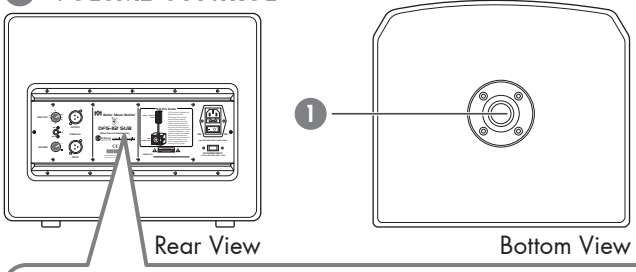


Bottom View

1. **SUSPENSION POINT (For Hanging)**
2. **SPEAKER HANDLE**
3. **SPEAKER OUTPUT TERMINAL (Speakon)**
4. **SPEAKER INPUT TERMINAL (Speakon)**
5. **35MM SPEAKER STAND MOUNT**

REAR PANEL: features are available for BASS POWERED SUB model DFS-112 SUB and DFS-118 SUB.

1. **35MM SPEAKER STAND MOUNT**
2. **XLR OUTPUT** is bypass (loop through) signal from input.
3. **HIGH CUT:** Set upper frequency Range (-10 dB) limit
4. **OVERLOAD INDICATOR**
5. **PHASE INVERTED SWITCH**
6. **STATUS INDICATOR**
7. **VOLUME CONTROL**

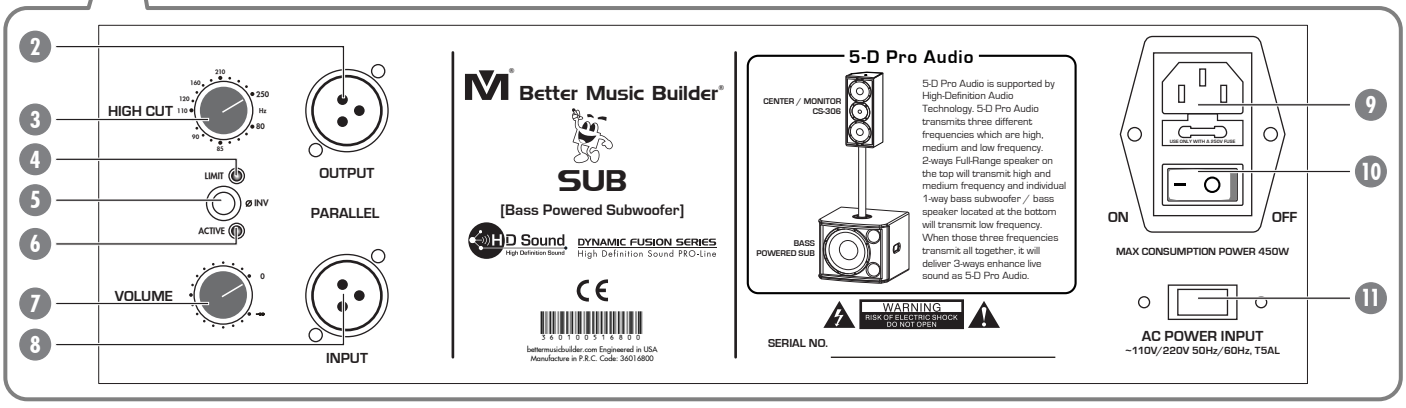


Rear View

Bottom View

8. **XLR INPUT** is from sub out (low frequency) or line out (full range hi, mid, low frequency) to subwoofer input. 1/4 inch phone jack balanced input connector.
9. **AC-POWER INPUT TERMINAL**
10. **POWER SWITCH ON/OFF**
11. **POWER SUPPLY SWITCH:** The switch is set to 110V~220V. If you move to an area where the voltage requirements differ, set under the responsibility of the user according to the local power voltage. Be sure to replace the fuse with the specified after changing the voltage setting.

NOTE ▶ If your machine is not responding (such as no sound), one probable cause is that the Voltage Selector is not set for your local voltage.



SYSTEM SETUP GUIDELINES: INSTALLATION SETUP for MODEL DFS-206 & DFS-306

1. MOUNTING THE SPEAKER TO THE CEILING

STEP 1: Hold the speaker bracket under the ceiling, then put two screws to fasten the bracket into the ceiling.

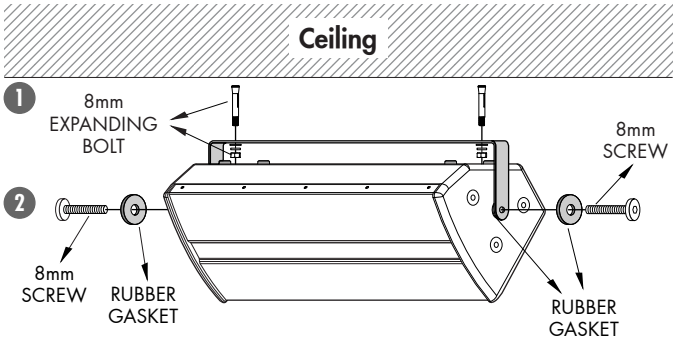
STEP 2: Unscrew the two allen screws found on the center of both the speaker sides. Place a rubber gasket for the sound quality, and screw the speakers back into the brackets as shown in the diagram below.

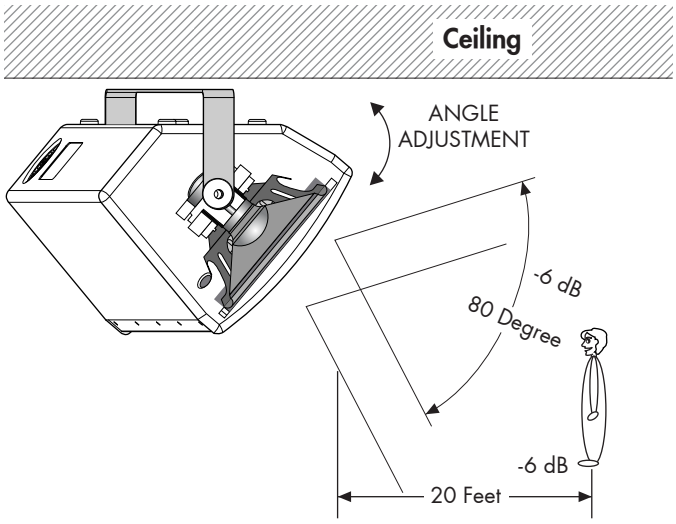
Adjust the speaker up and down for rotation at different angles to achieve the best sound effect.

NOTE The structure of the ceiling must be strong enough to hold at least 50 pounds.

NOTE When installing the speakers to the brackets you must insert a rubber gasket to protect speaker sound quality.

NOTE The U bracket is included in the package but screws and rubber gaskets are not included.





NOTE We recommend that the speakers be tiled at an angle, so that it aims at audience's ear level in order to achieve the best accoustic quality.

2. MOUNTING THE SPEAKER TO THE WALL

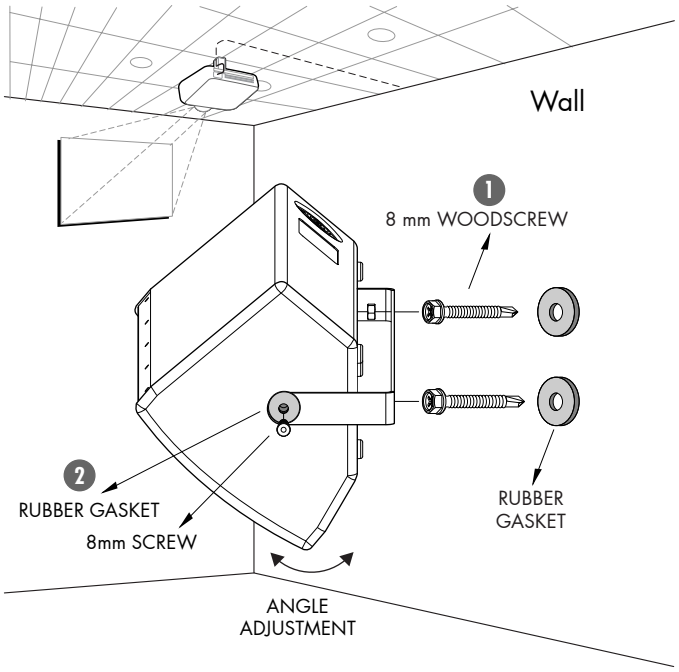
STEP 1: Hold the speaker bracket on the wall, then put two screws to fasten the bracket into the wall.

STEP 2: Unscrew the two allen screws found on the center of both the speaker sides. Place a rubber gasket for the sound quality, and screw the speakers back into the brackets as shown in the diagram below.

Adjust the speaker up and down for rotation at different angles to achieve the maximum sound effect.

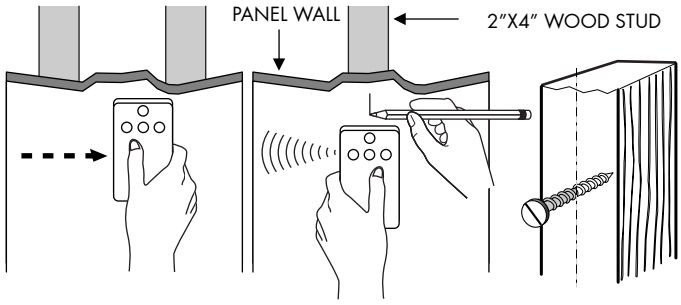
NOTE The structure of the wall must be strong enough to hold up to 100 pounds.

NOTE When installing the speakers to the brackets you must insert a rubber gasket to protect speaker sound quality.



Mounting to Solid Wood or Wood Studs

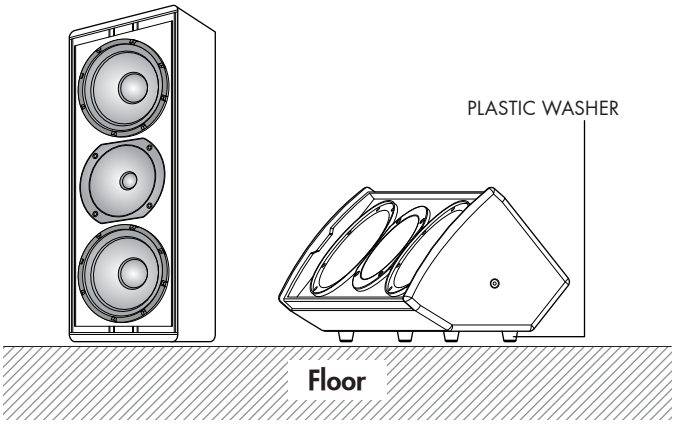
In North America, most of the houses have 2"x4" wood studs inside the panel walls. You may use stud finder to locate the wood studs. Then, you can drive the screw into the wood stud to mount the speaker bracket and hold it firmly.



3. PLACING THE SPEAKER ON THE FLOOR TO MONITOR SINGING

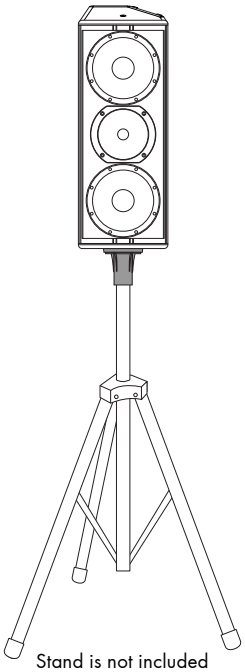
This DFS-206 & DFS-306 speaker can be placed on the floor to perform the vocal monitoring function for live singing experience. It can also be used for business conference, coffee shop and church, etc.

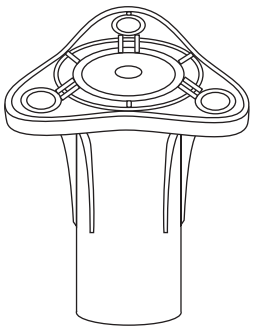
NOTE ▶When you use this speaker for the center or "monitor" the manufacturers has 4 plastic washers screws on the back of the speakers to prevent extreme shaking from recoil. You may use the speaker bracket to tightly install to the floor/ground, this will hold the speaker in place even with extremely loud music.



4. PLACING THE SPEAKERS ON THE PORTABLE STAND

The speakers can be mounted on to the optional portable stand, (see figure below). Make sure that the mounting system (hardware, stand, etc.) is capable of supporting four times the weight (approximately 25 lbs per speaker) of the speakers. Part Number: AMS001B (Optional).


Stand is not included

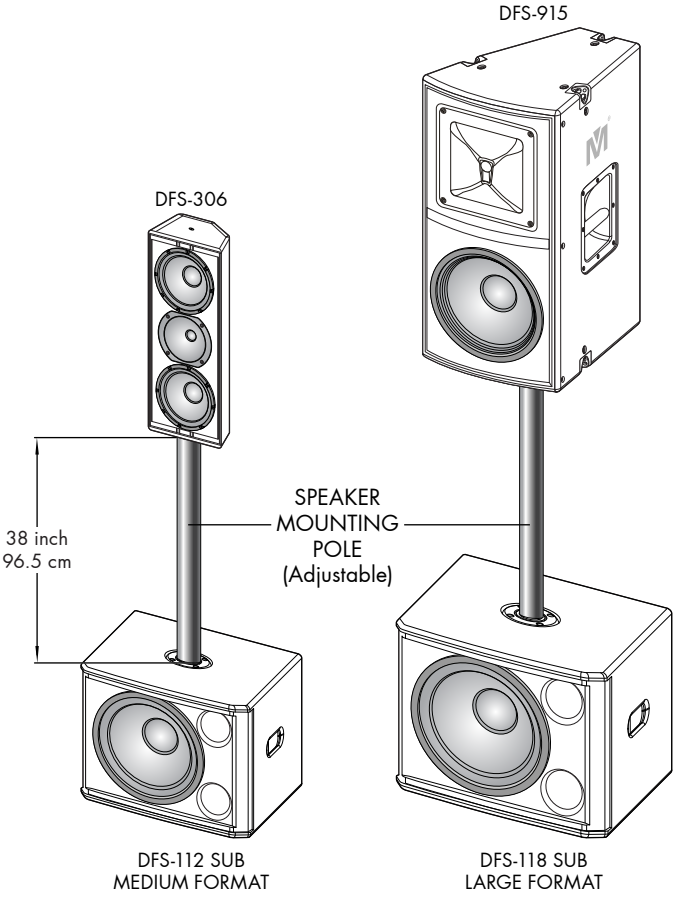

Top holder is included in package.

NOTE ▶ If you would like to insert a speaker stand please remove three allen screws (screw size 8mm) which are in a triangular corner. Then insert the speaker top holder carefully to avoid scraping.

INSTALLATION SETUP for MODEL DFS-912, DFS-915, DFS-112 SUB & DFS-118 SUB

1. PLACING THE SPEAKERS ON THE SPEAKER MOUNTING POLE (Adjustable)

Part Number: AM91 (Optional)



NOTE ▶ The speaker mounting pole as indicated in the diagram is not included with any of our speaker models. You may order it directly from our authorized dealers near you.

PARTS FOR MAINTENANCE (DFS-112 SUB & DFS-118 SUB)

For repair and maintenance, you can order the following parts indicated with numbers below from our authorized dealers. The following parts include:

1. **FRONT GRILL COVER** Part Number: 360ED-12COV
2. **GREAT EXPANSION CABINET** Part Number: 360ED-12CNT
3. **WOOFER**
   DFS-112 SUB: Part Number: 12LP075-W
   DFS-118 SUB: Part Number: 18LP075-W
4. **CROSSOVER** Part Number: A1004-204712

2. MOUNTING THE SPEAKER TO THE CEILING

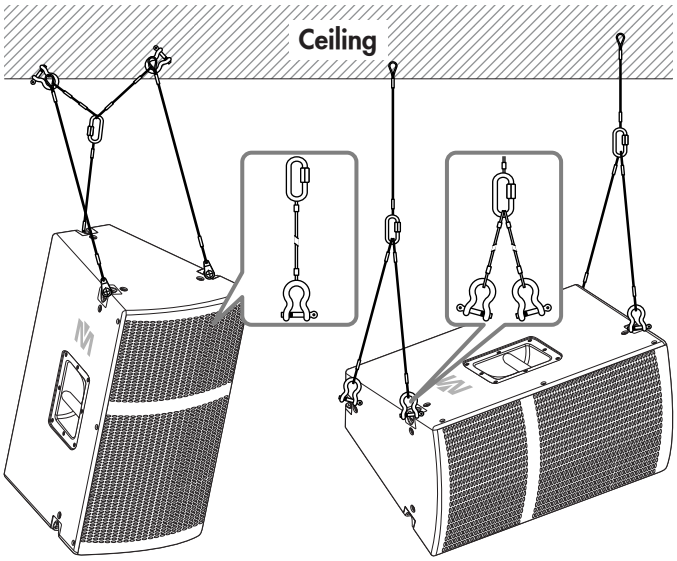
Integrated Suspension Points (Suspension Installations)

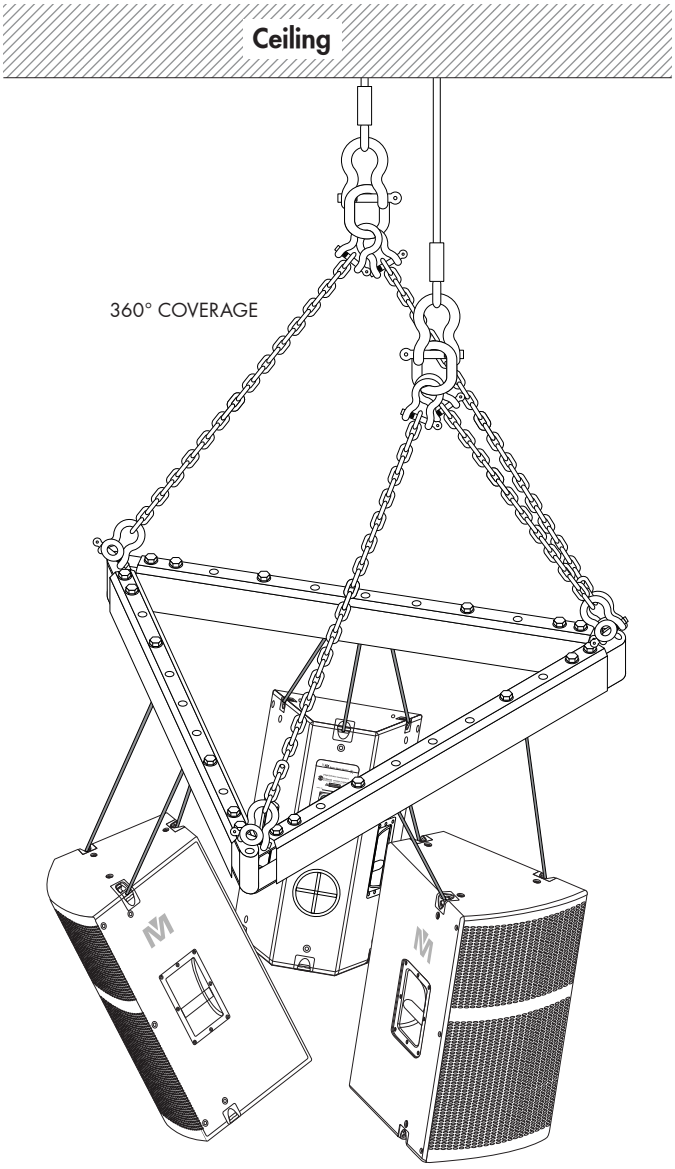
For an area of 3,000 square feet or more, you can group up to six flying speakers together and suspend them into the ceiling for spot sound to cover a greater distance.

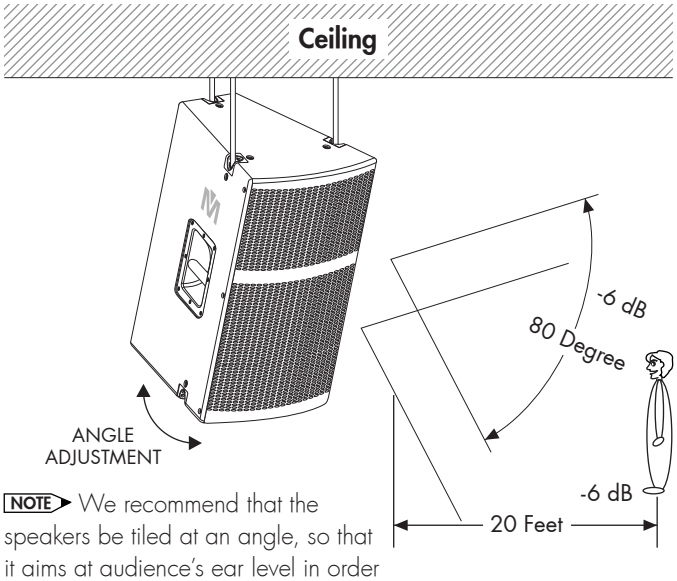
To suspend the flying speakers onto the ceiling, you need the parts and accessories (optional) as indicated in the diagram below. To order these parts and accessories, please contact our authorized dealers directly.

NOTE ▶ We highly recommend you hiring a professional audio contractor to do the installation for safety purpose.

NOTE ▶ The structure of the ceiling must be strong enough to hold at least 50 pounds.



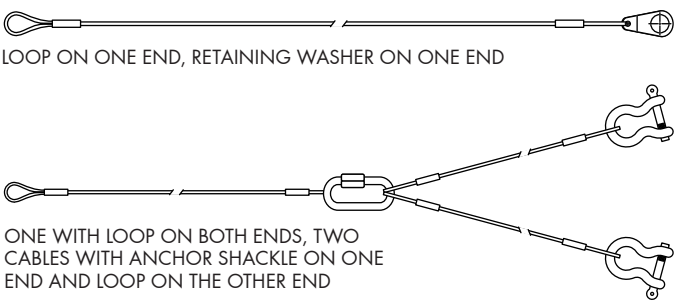




NOTE ▶ We recommend that the speakers be tiled at an angle, so that it aims at audience's ear level in order to achieve the best accoustic quality.

Examples of Useful Rigging Hardware

Safety Cable Style


LOOP ON ONE END, RETAINING WASHER ON ONE END
ONE WITH LOOP ON BOTH ENDS, TWO CABLES WITH ANCHOR SHACKLE ON ONE END AND LOOP ON THE OTHER END

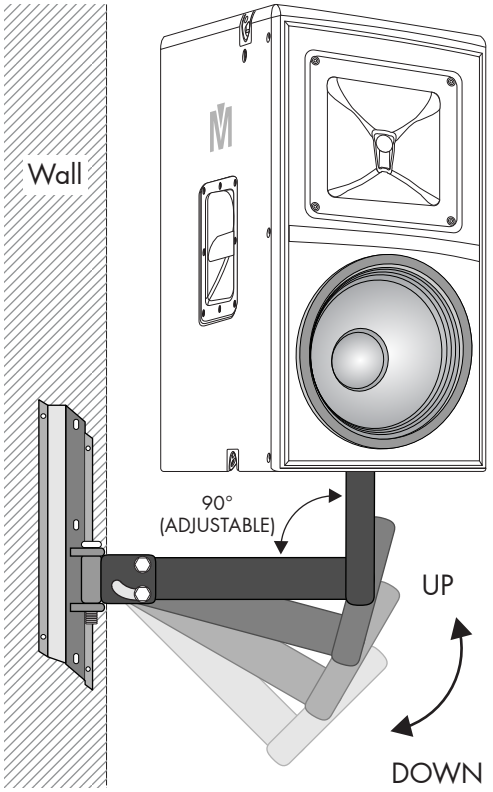
3. MOUNTING THE SPEAKER TO THE WALL

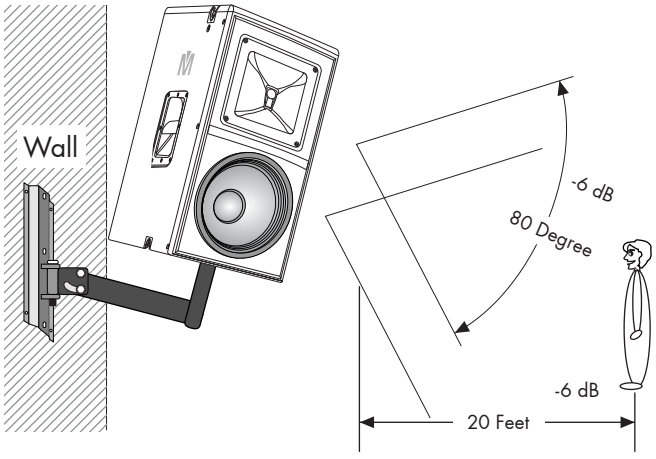
STEP ❶: Place the wall mount panel on the wall and put three or more screws to fasten it.

STEP ❷: Then, put the speaker firmly onto the mount.

Adjust the speaker up and down for rotation at different angles to achieve the maximum sound effect.

NOTE ▶ The structure of the wall must be strong enough to hold up to 100 pounds.

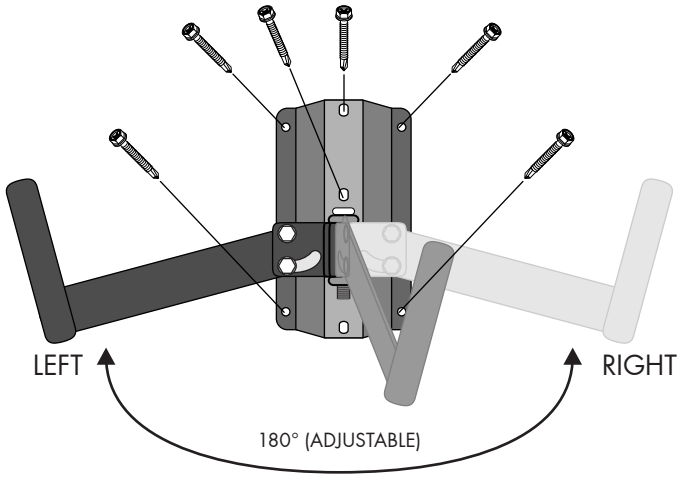




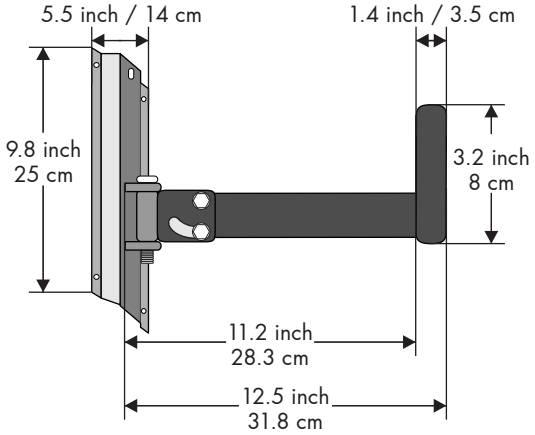
NOTE ▶ We recommend that the speakers be tiled at an angle, so that it aims at audience's ear level in order to achieve the best accoustic quality.

How to Adjust the Wall Mount (SL-001)

Adjust the wall mount left/right at 180 degree and up/down at 90 degree for rotation at different angles to achieve the best sound effect. Once you have set up the right position, then you can use the screw to tight it up. Part Number: SL-001 (Optional) for wall mount.

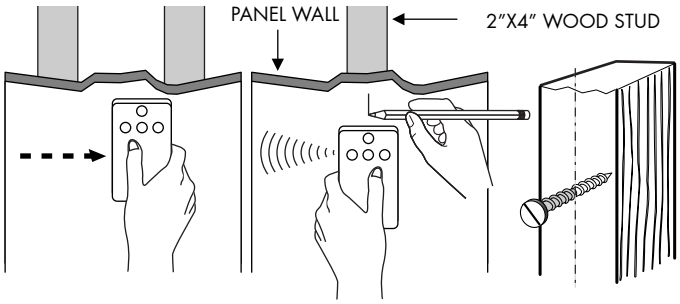


Dimensions: Wall Mount (SL-001)



Mounting to Solid Wood or Wood Studs

In North America, most of the houses have 2"x4" wood studs inside the panel walls. You may use stud finder to locate the wood studs. Then, you can drive the screw into the wood stud to mount the speaker bracket and hold it firmly.

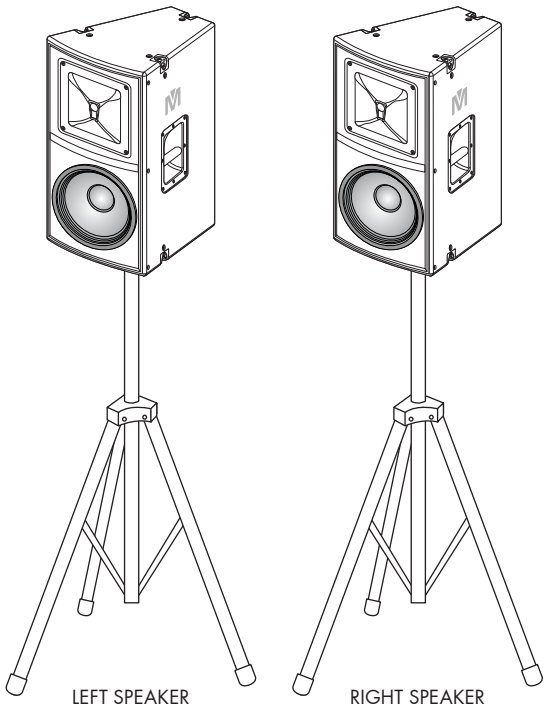


4. PLACING THE SPEAKER ON THE FLOOR TO MONITOR SINGING

This DFS-912 & DFS-915 speaker can be placed on the floor to perform the vocal monitoring function for live singing experience. It can also be used for business conference, coffee shop and church, etc.

5. PLACING THE SPEAKERS ON THE PORTABLE STAND

The speakers can be mounted on to the optional portable stand, (see figure below). Make sure that the mounting system (hardware, stand, etc.) is capable of supporting four times the weight (approximately 25 lbs per speaker) of the speakers. Part Number: AMS001B (Optional).



LEFT SPEAKER
(Stand is not included)

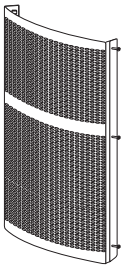
RIGHT SPEAKER
(Stand is not included)

PARTS FOR MAINTENANCE (DFS-912 & DFS-915)

For repair and maintenance, you can order the following parts indicated with numbers below from our authorized dealers. The following parts include:

1. **FRONT GRILL COVER: DFS-912** Part Number: 360EDX12iCOV
   DFS-915 Part Number: 360EDX15iCOV
2. **GREAT EXPANSION CABINET**
   DFS-912 Part Number: 360EDX12iCNT
   DFS-915 Part Number: 360EDX15iCNT
3. **WOOFER (LF): DFS-912** Part Number: 12LB075-8
   DFS-915 Part Number: 15LB075-8
4. **HORN (HF)** Part Number: 75ED36-8LM
5. **CROSSOVER** Part Number: EAG029-90-A

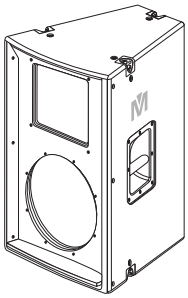
1 FRONT GRILL COVER



DFS-912 Part Number: 360EDX12iCOV

DFS-915 Part Number: 360EDX15iCOV

2 GREAT EXPANSION CABINET

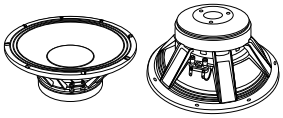


DFS-912 Part Number: 360EDX12iCNT

DFS-915 Part Number: 360EDX15iCNT

3 WOOFER (LF)

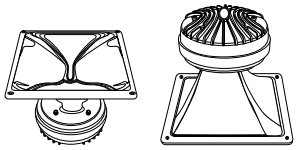
DFS-912 Part Number: 12LB075-8
DFS-915 Part Number: 15LB075-8



FRONT VIEW BACK VIEW

4 HORN (HF)

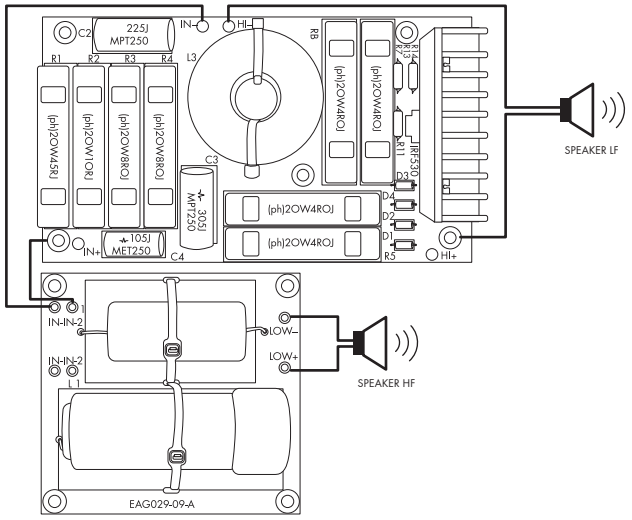
Part Number: 75ED36-8LM



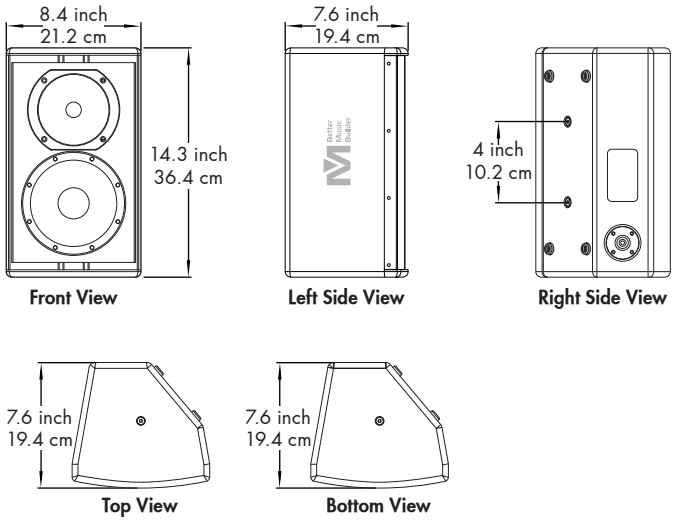
FRONT VIEW BACK VIEW

5 CROSSOVER

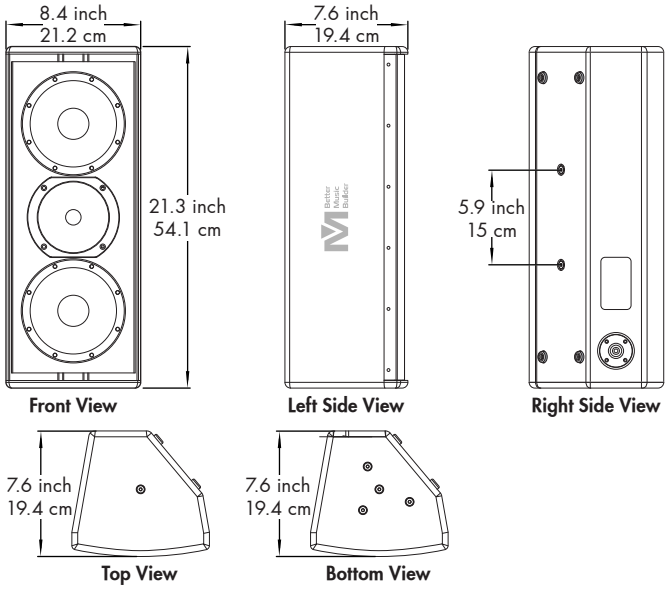
Part Number: EAG029-90-A



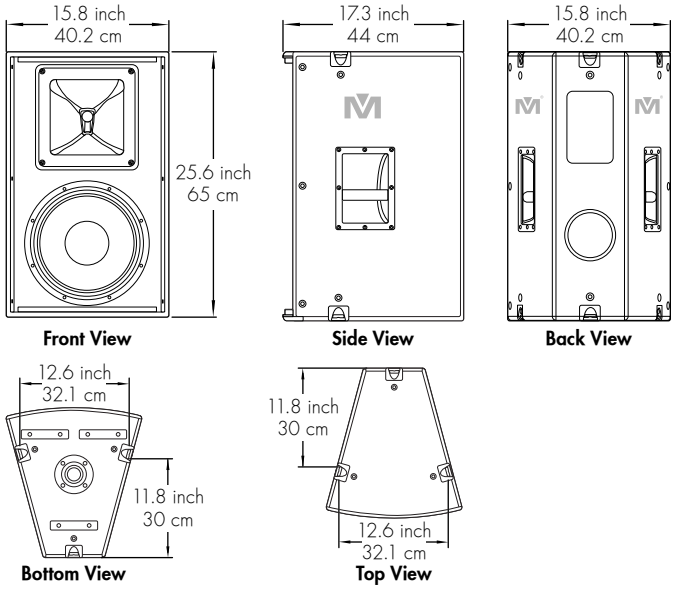
DFS-206



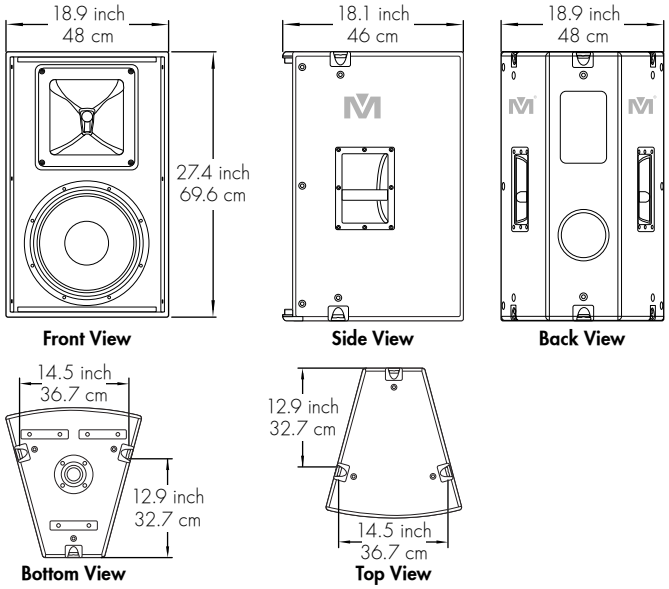
DFS-306



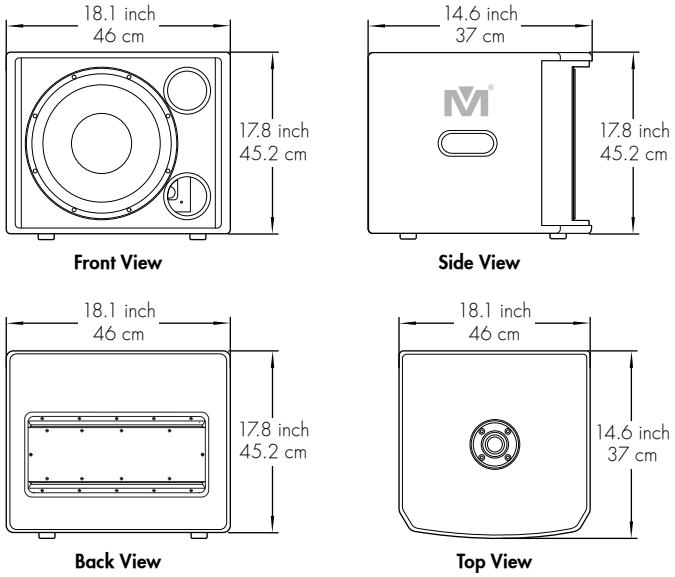
DFS-912



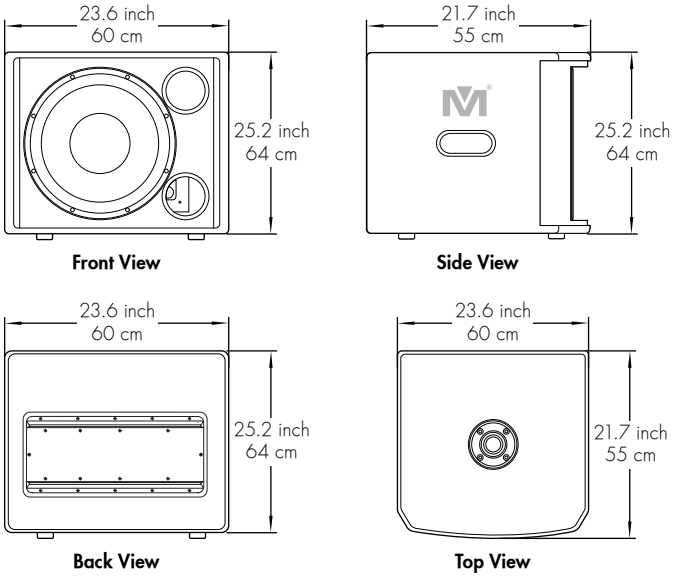
DFS-915



DFS-112 SUB



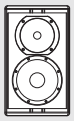
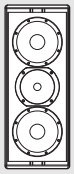
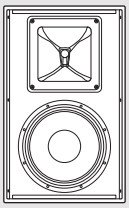
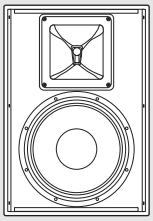
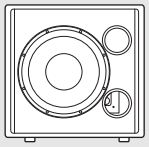
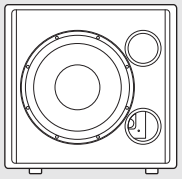
DFS-118 SUB



PHYSICAL DIMENSIONS

	2-WAY HIGH FREQUENCY		HIGH DEFINITION LOUDSPEAKER		BASS POWERED SUBWOOFER	
MODEL	**DFS-206**	**DFS-306**	**DFS-912**	**DFS-915**	**DFS-112 SUB**	**DFS-118 SUB**
NET WEIGHT	14 lbs / 6.4 Kg (each)	21.8 lbs / 9.9 Kg (each)	58 lbs / 26.3 kg (each)	82.2 lbs / 37.3 kg (each)	52 lbs / 23.6 Kg (each)	99 lbs / 45 Kg (each)
SHIPPING WEIGHT	34.4 lbs / 15.6 Kg (pair)	27 lbs / 12.2 Kg (each)	66.1 lbs / 30 kg (each)	89.3 lbs / 40.5 kg (each)	58 lbs / 26.3 Kg (each)	112.2 lbs / 51 Kg (each)
DIMENSIONS (WXHXD)	8.4x14.3x7.6 in 21.2x36.4x19.4 cm	8.4x21.3x7.6 in 21.2x54.1x19.4 cm	15.8x25.6x17.3 in 40.2x65x44 cm	18.9x27.4x18.1 in 48x69.6x46 cm	18.1x17.8x14.6 in 46x45.2x37 cm	23.6x25.2x21.7 in 60x64x55 cm
PACKING DIMENSIONS (WXHXD)	21.3x18.3x11.5 in 54.1x46.5x29.3 cm (a pair)	23.3x11.9x12.3 in 59.2x30.2x31.2 cm (each)	19.7x29.5x21.3 in 50x75x54 cm (each)	22.8x31.3x22 in 58x79.6x56 cm (each)	21.7x20.1x21.7 in 55x51x55 cm (each)	29.5x28x26.4 in 75x71x67 cm (each)

SPECIFICATIONS

	2-WAY HIGH FREQUENCY		HIGH DEFINITION LOUDSPEAKER		BASS POWERED SUBWOOFER	
MODEL	 **DFS-206**	 **DFS-306**	 **DFS-912**	 **DFS-915**	 **DFS-112 SUB**	 **DFS-118 SUB**
TYPE	Rear Surround Sound	Center Monitor	Front	Front	Subwoofer	Subwoofer
MAX. POWER HANDLING	160 Watts	320 Watts	300 Watts	500 Watts	1200 Watts	2000 Watts
CABINET TYPE	Wood	PVC	Selected High Intensity Plywood	Selected High Intensity Plywood	Selected High Intensity Plywood	Selected High Intensity Plywood
SUPPORTED FIXTURE	Ceiling, Wall Mount, Floor Stand	Ceiling, Wall Mount, Floor Stand	Ceiling, Wall Mount, Ground, Floor Stand	Ceiling, Wall Mount, Ground, Floor Stand	Ground, Floor Stand	Ground, Floor Stand
WOOFER [LF]	6.5" (1 unit)	6.5" (2 unit)	12" (1 unit)	15" (1 unit)	12" (1 unit)	18" (1 unit)
TWEETER [HF]	2-Way Full Range	2-Way Full Range	2-Way Full Range with Hi-Fi Level Performance	2-Way Full Range with Hi-Fi Level Performance		
"SPOT" RANGE	Compression Driver 1.7" Titanium Diaphragm	Compression Driver 1" Pei Diaphragm	1 Compression Driver with Voice Coil Megnalium Diaphragm	1 Compression Driver with Voice Coil Megnalium Diaphragm	Exponential LF Horn Configuration	Exponential LF Horn Configuration
FREQUENCY RESPONSE	80Hz ~ 18kHz	70Hz ~ 18kHz	45Hz ~ 18kHz	40Hz ~ 18kHz	40Hz ~ 250Hz	40Hz ~ 250Hz
SENSITIVITY	90 dB	93 dB	95 dB	95 dB	92 dB	97 dB
CROSSOVER FREQUENCY	3.2 kHz	3 kHz	1.8 kHz	1.5 kHz		
HIGHLIGHTED FEATURES	Dynamic Vocal Effect	Independent Vocal Effect	Unique LF Extension Technology	Unique LF Extension Technology	75mm Voice Coil	100mm Voice Coil

TROUBLESHOOTING

1. SYMPTOM: NO SOUNDS COMING OUT FROM THE SPEAKERS

Probable cause:

1. The A/C power of the speaker is not turned on.

2. Choose the wrong A/C power selection (i.e. 110V~ 220V).

Remedy:

A. Turn on the A/C power of the speaker.

B. Check the receiver or amplifier if it is on and the source is playing.

C. Check all wires and connections between receivers, amplifiers and speakers. Make sure all wires are connected. None of the speaker wires are frayed, cut or punctured, and no wires are touching each other.

D. Review proper operation of your receiver or amplifier.

E. Choose the right A/C power.

2. SYMPTOM: NO SOUNDS COMING OUT FROM ONLY ONE SPEAKER

Probable causes:

The A/C power of the speaker is not turned on.

Remedy:

A. Check the "Balance" control on your receiver or amplifier.

B. Check all wires and connections between receiver, amplifier and speaker. Make sure all wires are connected. Make sure none of the speaker wires are frayed, cut or punctured, and that no wires are touching each other.

C. In Dolby® Digital or DTS® mode, make sure that the receiver or processor is configured so that the speaker in question is enabled.

D. Turn off all electronics and switch the speaker in question with one of the other speakers that is working correctly. Turn everything back on, and determine whether the problem is in the same place: i.e., the speaker that was working previously now has no sound and the speaker that was not working now sounds fine; or whether it has moved; i.e., the speaker that was not working still has no sound and the speaker that was working is still fine. If the problem is in the same place, the source of the problem is most likely with your receiver or amplifier, and you should consult the owner's manual further information. If the problem has followed the speaker, consult your dealer for further assistance, or visit our web site for technical support.

3. SYMPTOM: NOISES FROM THE SPEAKER.

Probable causes:

The A/C power cord of the speaker is not grounded.

Remedy:

Change a new magnet cord of the A/C power cord.

4. SYMPTOM: MICROPHONE VOLUME IS TOO LOW.

Probable causes:

A. The microphone is poorly connected to the speaker.

B. The volume on the speaker DFS-112 SUB or DFS-118 SUB is too low.

Remedy:

A. Check the connection between the microphone and the speaker. Make sure that they are connected properly. For condense microphone, it doesn't work with the speaker. You may need to change to a dynamic vocal microphone.

B. Turn the volume to an appropriate level. If the volume is still not high enough, you may need to upgrade your existing audio system to a system with much higher output.

5. SYMPTOM: CRACKING NOISES FROM THE SPEAKER.

Probable causes:

The tweeter may burn out.

Remedy:

Change a new tweeter.

Note: we recommend you hiring a professional to help you change a tweeter in order to do it properly.

6. SYMPTOM: SOUNDS LIKE DAZZ, DAZZ, DAZZ ..... COMING FROM THE SPEAKER.

Probable causes:

The speakon cable (with small gauges) is over 100 feet for connection.

Remedy:

Change to a cable with 12 or 14 gauges or a high quality cable with bigger size.

7. SYMPTOM: TOO MUCH MICROPHONE FEEDBACK FROM THE SPEAKER.

Probable causes:

Incorrect tremble and bass adjustments on the speaker.

Remedy:

Adjust the tremble and bass to an appropriate level to avoid the microphone feedback.

8. SYMPTOM: NO SOUND FROM THE MAIN SPEAKERS

Probable causes:

Speakon connectors are not connected properly.

Remedy:

Please make sure that the speakon connectors are locked it tight. Please also note that there are two groups of speakon connectors (i.e. Group 1 +1, –1, Group 2 +2, –2). Make sure that your speakers have the multifunction that enable the connection to the Group 2 for different signal inputs. The basic connection is on Group 1 (+1, –1).

9. SYMPTOM: SOMETIMES THE SPEAKERS HAVE NO SOUND.

Probable causes:

When the master volume closes to the maximum level, so the speaker automatically shut down with no sound. It is because this speaker has a built-in auto circuit to protect the speaker when the master volume becomes too high.

Remedy:

Change to a higher power amplifier to work with the speakers. Please make sure the output power of the amplifier can match that of the speakers. Another option is to add more speakers or subwoofers for higher output as below.

1. Add one more loudspeaker DFS-915.

2. Add one more powered subwoofer DFS-118 SUB.

We highly recommend you hiring an audio professional to advise you on the right engineering for the amplifier and speakers.

FINAL WORDS TO USER

The engineering team of Better Music Builder has many years of experience in audio equipment design. The team constantly develops new audio technologies, designs innovative audio and Karaoke equipment to suit your specific needs and provides you great ideas for home entertainment.

Our engineering team also designs audio equipment for commercial use by restaurants, coffee shops, churches, and school auditoriums, etc. If the commercial area for audio equipment installation exceeds 2,000 square feet, we highly recommend you to hire audio professionals to handle the installation in order to avoid risks in breaking the equipment with improper installation and safety protection purposes.

We also provide educational and technical information on audio equipment and technologies. For example, we provide free installation diagrams to make it easier to connect the system. In addition, to get best connections for the sharpest image and sound quality, we provide hot tip for choosing the high quality type of A/V cable connections. Free information on audio equipment and technologies available for download from our website, www.BetterMusicBuilder.com.

Please do not remove the "Yellow Label" in the rear of the machine; otherwise, the warranty will be void automatically. We design it to protect your own safety. If repair and maintenance service is needed, please contact us directly or hire a professional technician. To learn more about the technical aspects, visit our website www.BetterMusicBuilder.com and download the relevant information for review.

Before hooking up the system, turn off the AC powers on all machines including audio/video equipment and TV. Otherwise, it may damage the equipment, especially on the HDTV in which a spot might appeared on the TV screen. After hooking up the system, double check the audio/video connections to ensure that they are connected correctly.

NOTE Sometimes, loose or poor cable quality would affect the microphone effects, picture quality, or even cause the machine to shut down suddenly.

Again, we must thank you for choosing Better Music Builder product. We hope you can make the best use of the machine and enjoy it for years to come. If you have any questions regarding our product, please feel free to contact us at www.BetterMusicBuilder.com.

WARRANTY

ONE-YEAR LIMITED WARRANTY FOR HOME USE EQUIPMENT

Our one-year warranty covers both parts and labors. The warranty becomes effective from the date of your purchase for one year.

Our warranty only covers defects due to product defectiveness with free of defects in materials or workmanship. However, our warranty does not cover defects due to normal wears, damage in transit, improper use, abuse or failure to follow the proper instructions for maintenance. This warranty is void in the event of unauthorized repairs, alternations, modifications and removing of the product label.

Please also note that our warranty does not cover any shipping cost for the return of defective products to us for inspection, repair and maintenance. Our warranty for Better Music Builder products can only be executed in North America.

90-DAY LIMITED WARRANTY FOR PUBLIC AND COMMERCIAL USE EQUIPMENT

Our 90-day warranty applies to speakers, amplifiers, mixers and microphones for both public and commercial use such as restaurant, coffee shop, KTV nightclub, church and school, etc. It covers both parts and labors. The warranty becomes effective from the date of your purchase for 90 days.

Our warranty only covers defects due to product defectiveness with free of defects in materials or workmanship. However, our warranty does not cover defects due to normal wears, damage in transit, improper use, abuse or failure to follow the proper instructions for maintenance. This warranty is void in the event of unauthorized repairs, alternations, modifications and removing of the product label.

Please also note that our warranty does not cover any shipping cost for the return of defective products to us for inspection, repair and maintenance. Our warranty for Better Music Builder products can only be executed in North America.

ADDITIONAL NOTES:

1. Limited warranty for home use equipment is only valid in North America.

2. Limited warranty is valid only if you purchase our products from our authorized dealers (including both regular retailers and online retailers) in North America. If you choose to purchase our products from an authorized dealer, we will not provide any limited product warranty for you. To protect your limited product warranty, please purchase our products from one of our authorized dealers in North America near you.

3. Limited warranty is automatically void if the yellow label stating "No Warranty After Opening" is removed from the product.

TO REGISTER YOUR WARRANTY

Please fill out the warranty card that came with your unit, download or submit online warranty form. However, we need the invoice for your purchase in order to process this warranty. You may also register your warranty online.
Please visit our website at www.bettermusicbuilder.com.

AGENCY REGULATORY NOTICES

Federal Communications Commission Notice

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not approved may void the user's authority to operate the equipment.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC rules and regulations.

Materials Disposal

Disposal of this material can be regulated because of environmental considerations. For disposal or recycling information, contact your local authorities or the Electronic Industries Alliance (EIA) (http://www.eiae.org).

Disposal Of Waste Equipment By Users In Private Households In The European Union

This symbol on the product or on its packaging indicates that this product must not be disposed of with your other household waste. Instead, it is your responsibility to dispose of your waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Japanese Notice

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取扱説明書に従って正しい取り扱いをして下さい。

Japanese Power Cord Notice

製品には、同梱された電源コードをお使い下さい。
同梱された電源コードは、他の製品では使用出来ません。

Japanese Material Content Declaration

A Japanese regulatory requirement, defined by Specification JIS-C-0950, 2005, mandates that manufacturers provide Material Content Declarations for certain categories of electronic products offered for sale after July 1, 2006.

Korean Notice

B급 기기 (가정용 방송통신기기)	이 기기는 가정용(B급)으로 전자파적합등록을 한 기기로서 주로 가정에서 사용하는 것을 목적으로 하며, 모든 지역에서 사용할 수 있습니다.

Recycling Program

The terms and availability of these programs vary by geography because of differences in regulatory requirements and local customer demand.

因为在当地的监管要求和客户的需求，这些条件和程序的情况不同。

CONTACT INFORMATION

MAILING ADDRESS

Better Music Builder
29300 Kohoutek Way #150
Union City, CA 94587
U.S.A.

TELEPHONE NUMBERS

USA Region
USA Toll Free: 1-800-318-2218
Sales & Marketing: 510-477-9955
Customer Service: 510-477-9955

FAX NUMBERS

USA Region
Sales & Marketing: 510-477-9922
Customer Service: 510-477-9922

WORLD WIDE WEB

E-mail: info@bettermusicbuilder.com
Website: www.bettermusicbuilder.com

MAINTENANCE

With proper maintenance and regular service, it would maintain the machine quality and prolong its life. We recommend you to print the following information clearly for future reference on maintenance and warranty.

MODEL#_____ DATE PURCHASED (MM/DD/YYYY)_____

DEALER NAME_____ CITY_____ ST./PROV._____ ZIP/P.C._____

DEALER WEBSITE http://www._____ INVOICE #_____

DEALER PHONE #_____ DEALER E-MAIL_____

MAINTENANCE

NOTE

MAINTENANCE

NOTE

MAINTENANCE

NOTE

Better Music Builder®

Unlike any others ... that's cost & value for you

Passionate about Music

www.BetterMusicBuilder.com

Thank you for purchasing this unit. To make full and effective use of this unit, please read this Owner's Manual carefully before operating it. Please retain this manual for future reference.

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